

FIG. 1C

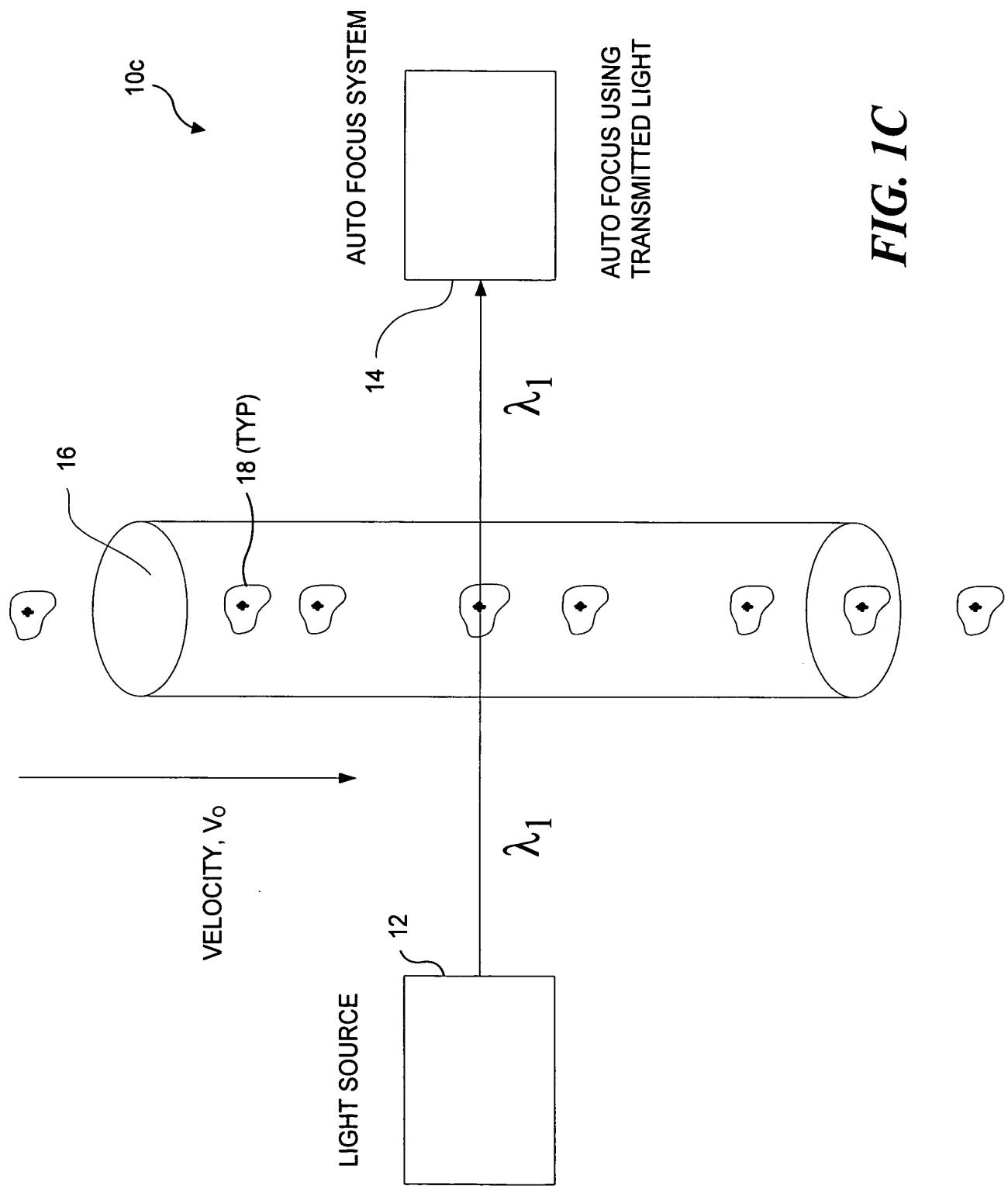


FIG. 2A

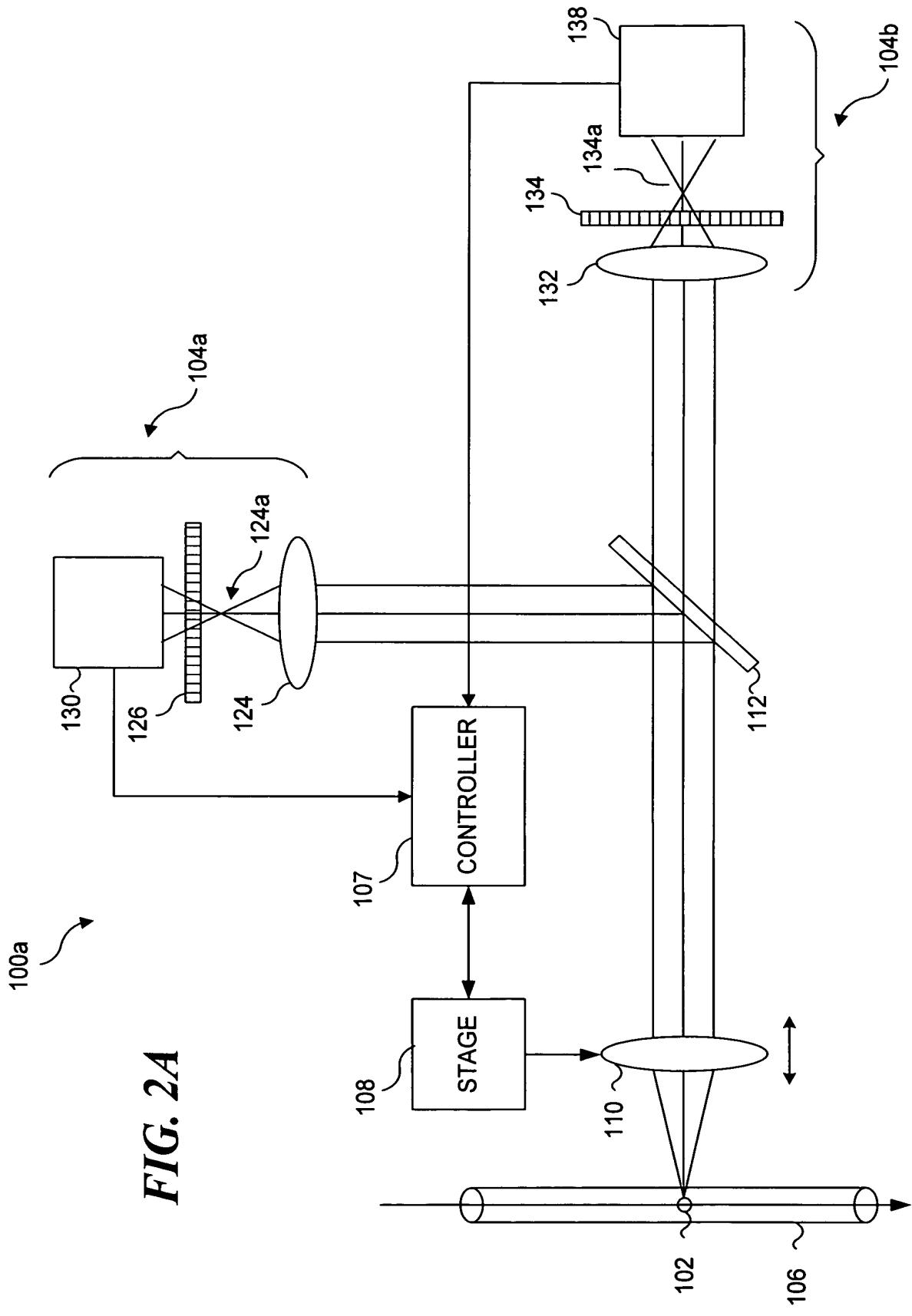


FIG. 2B

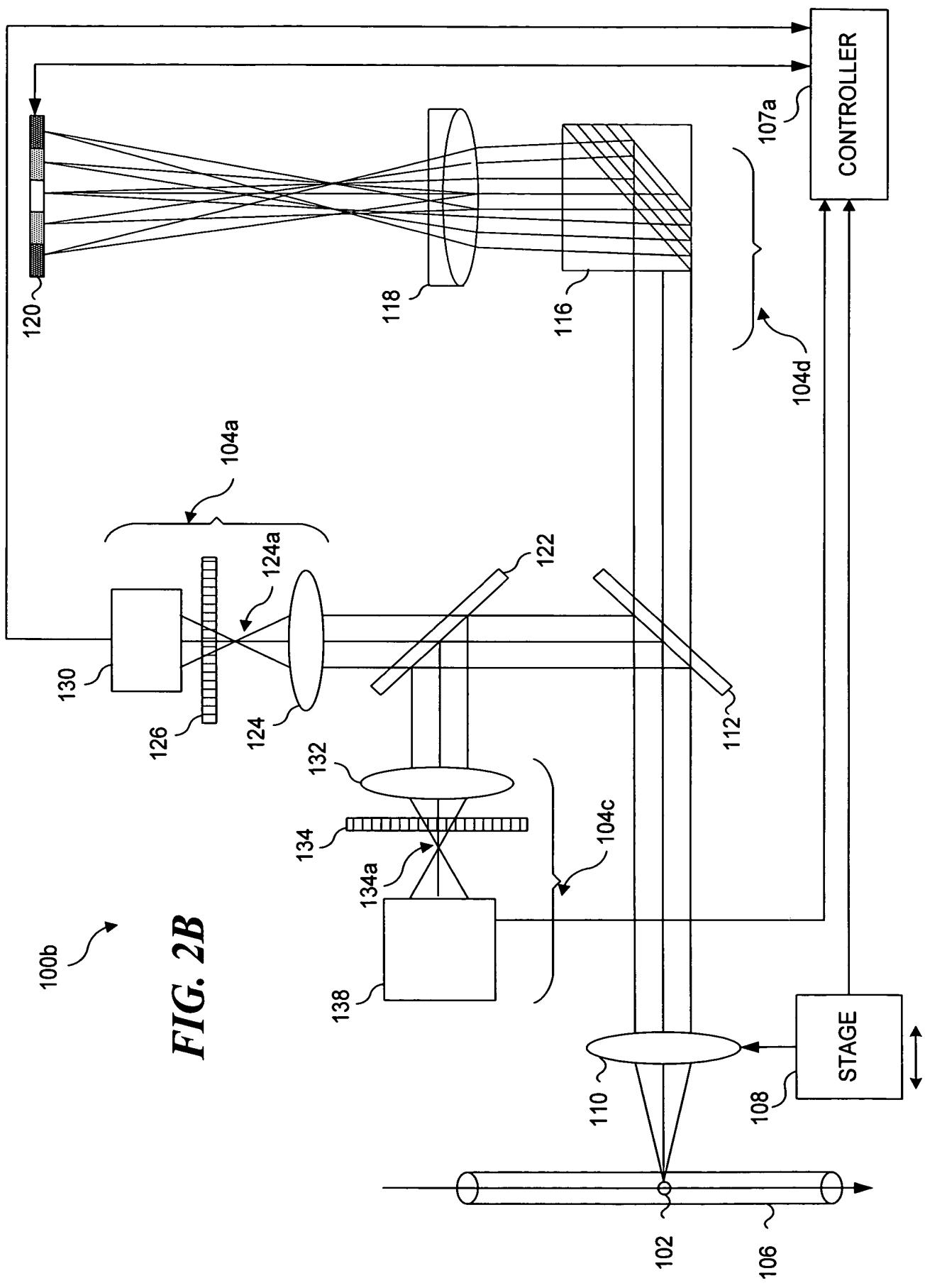
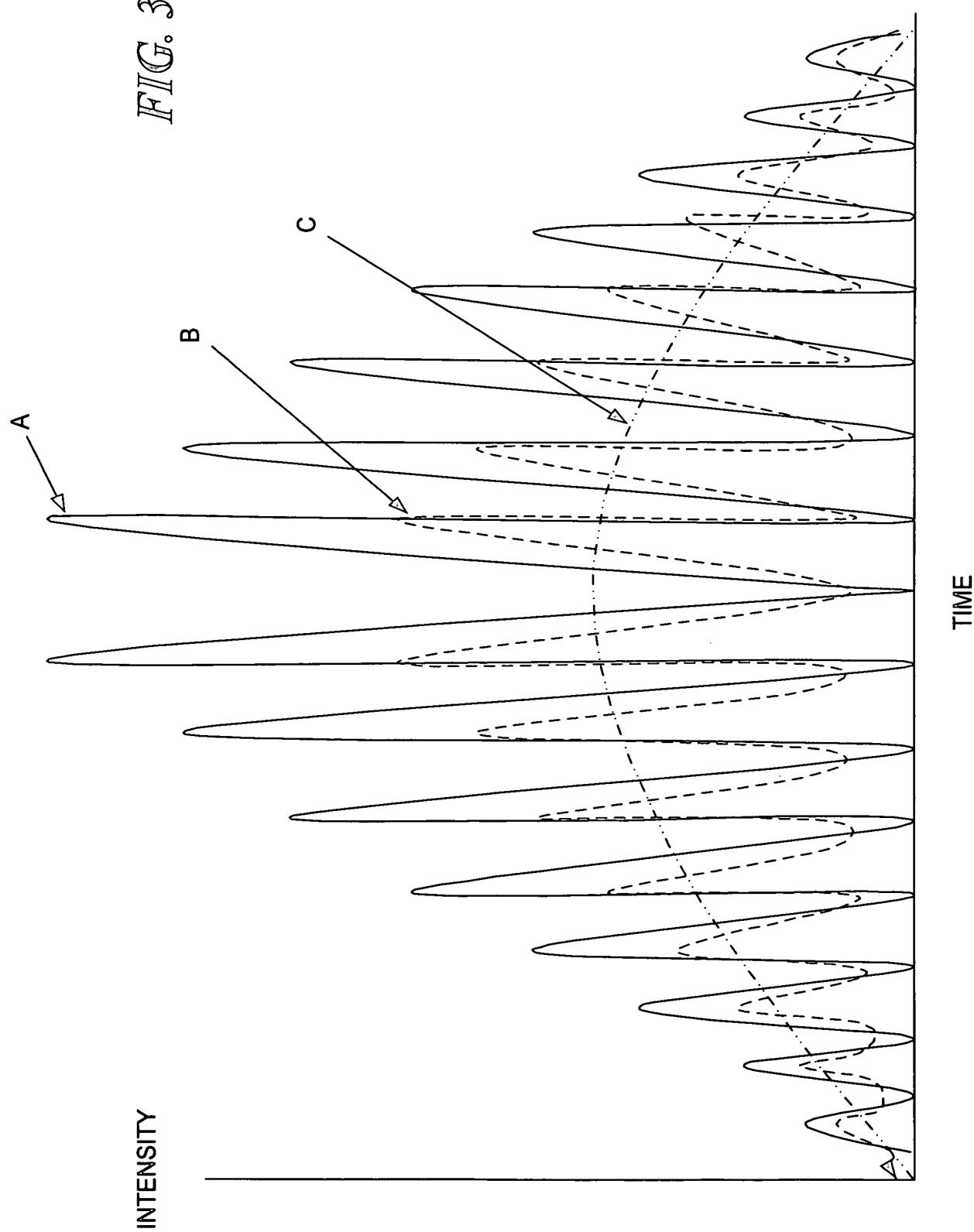
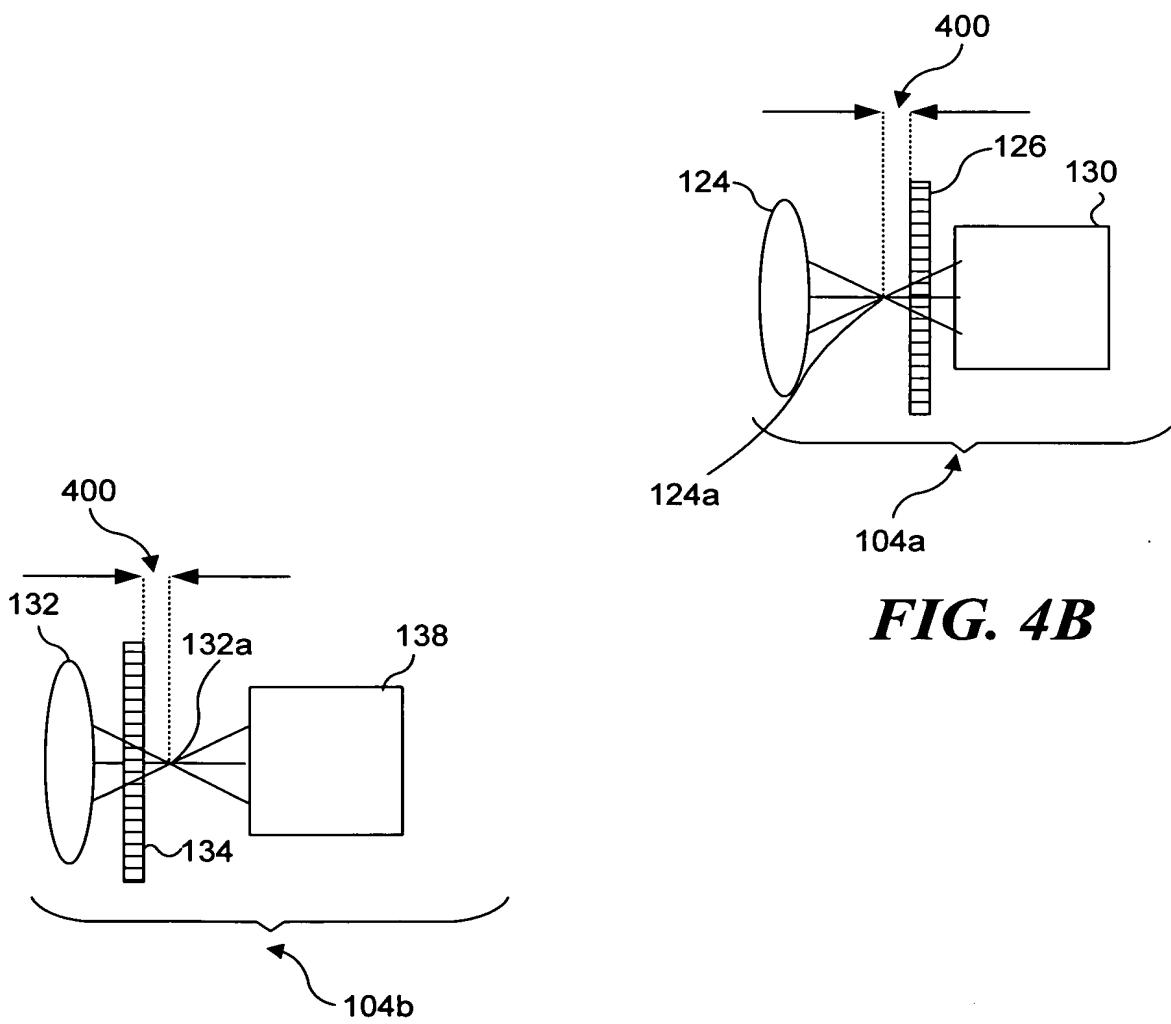
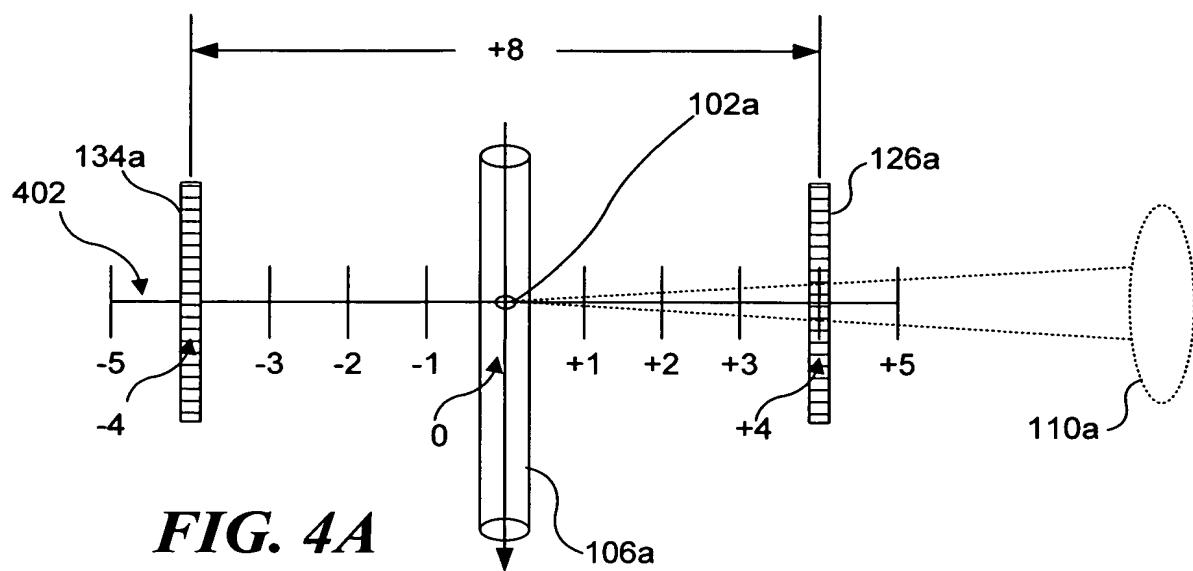


FIG. 3





CONTRAST VS. DEFOCUS DISTANCE

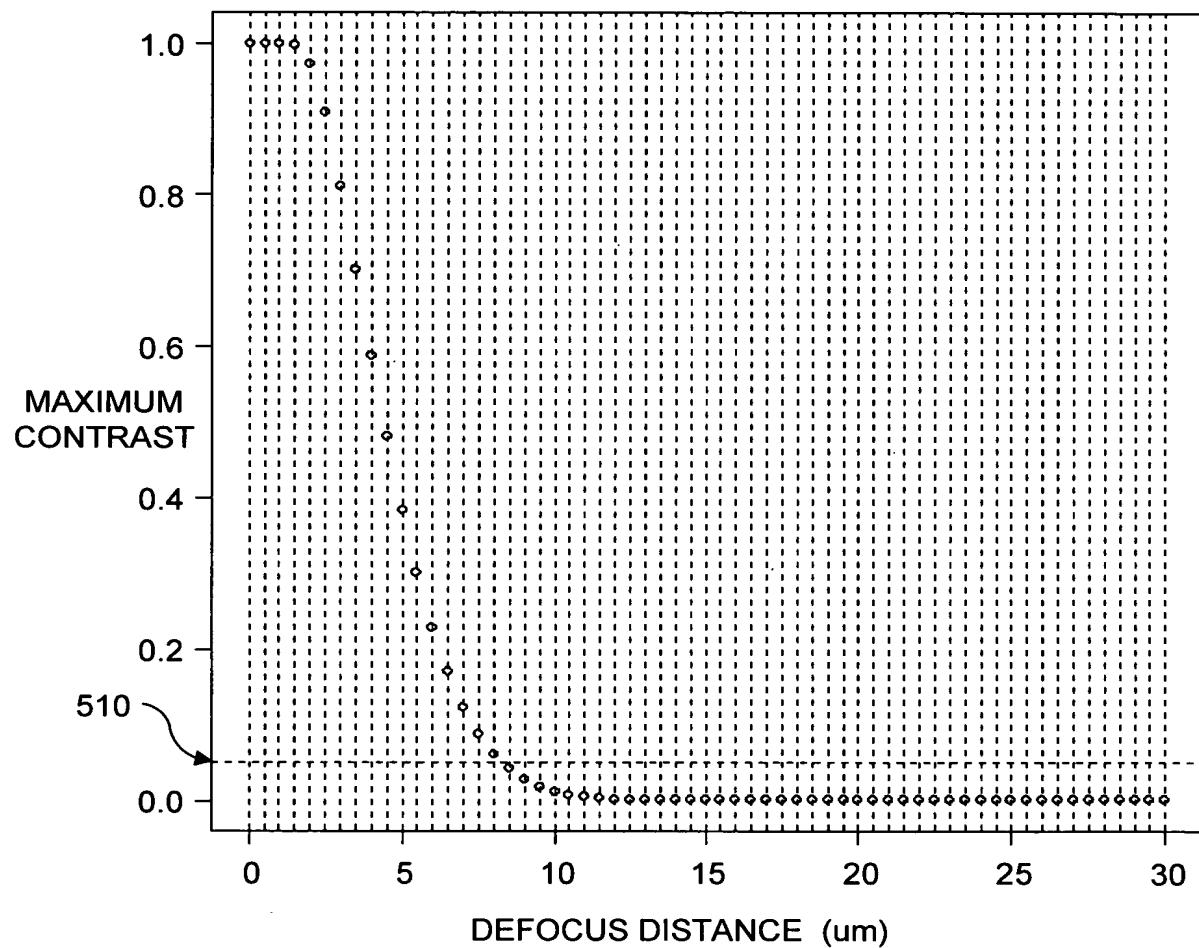


FIG. 5A

CONTRAST VS. DEFOCUS DISTANCE

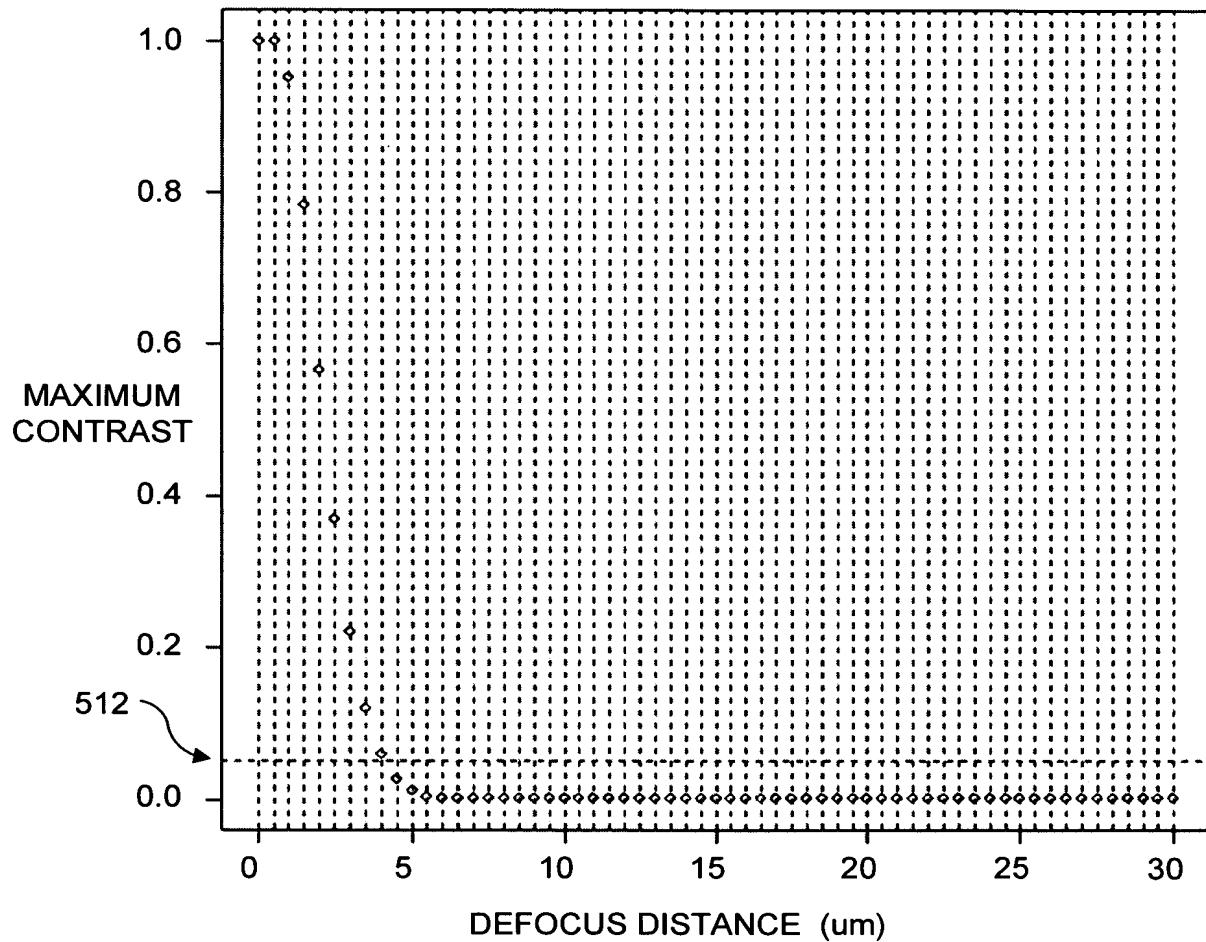
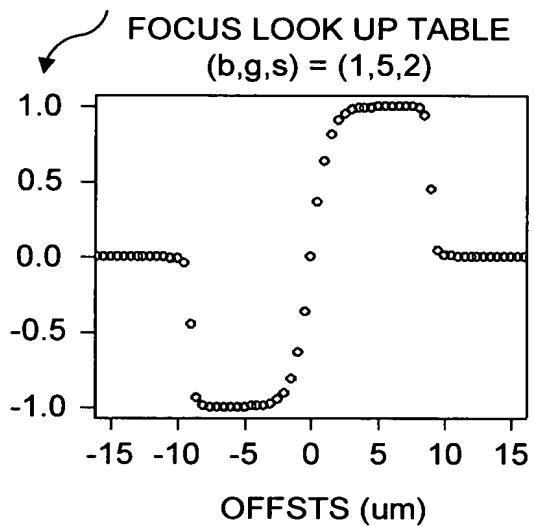
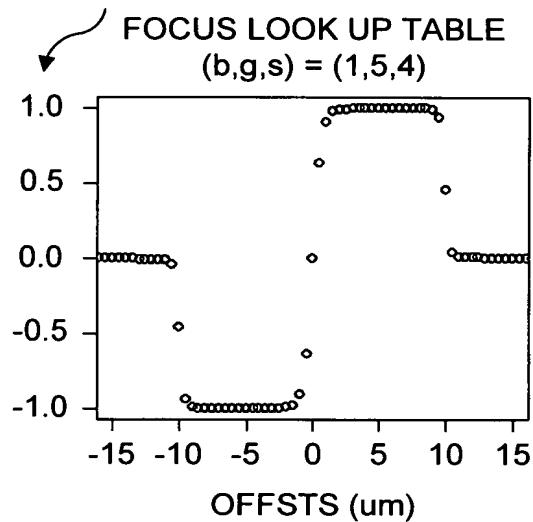


FIG. 5B

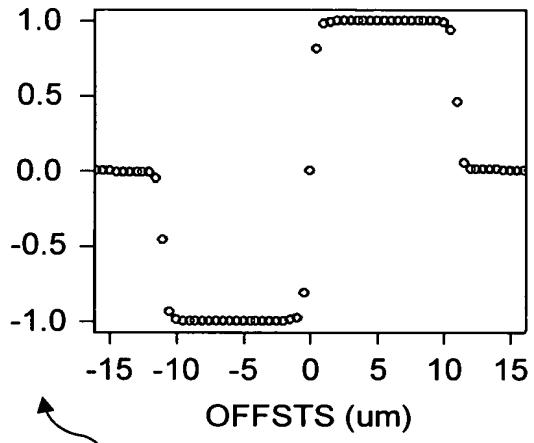
FOCUS SCORE ***FIG. 6A***



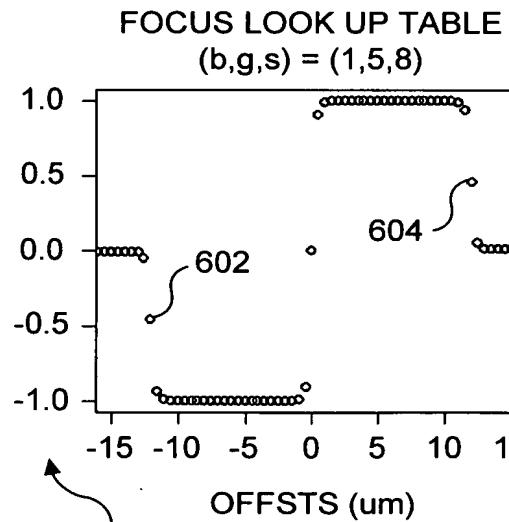
FOCUS SCORE ***FIG. 6B***



FOCUS LOOK UP TABLE
(b,g,s) = (1,5,6)



FOCUS SCORE ***FIG. 6C***



FOCUS SCORE ***FIG. 6D***

FIG. 7A

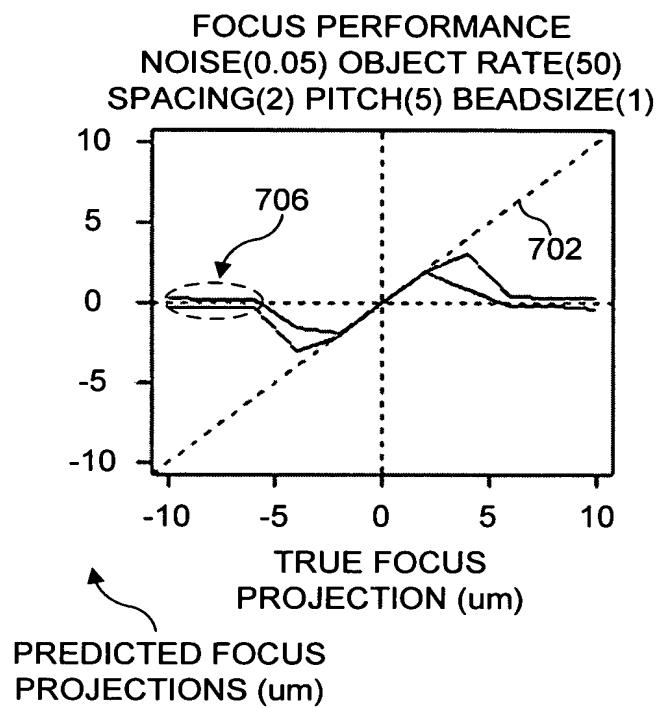


FIG. 7B

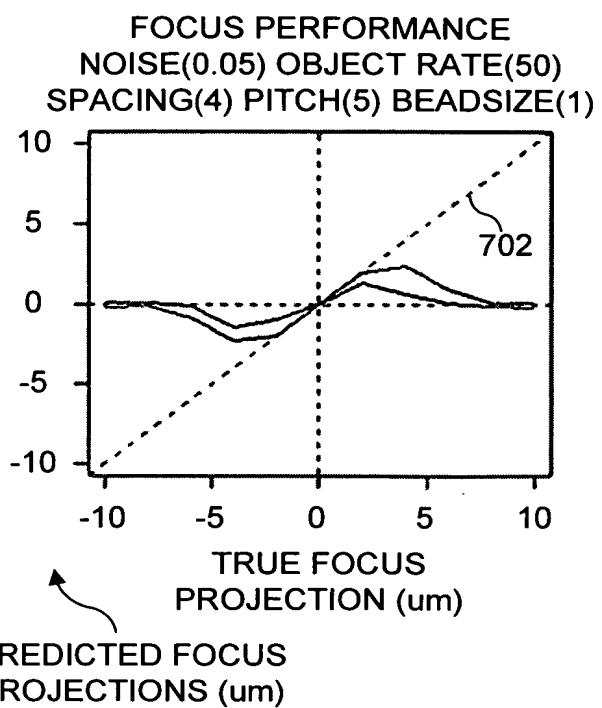


FIG. 7C

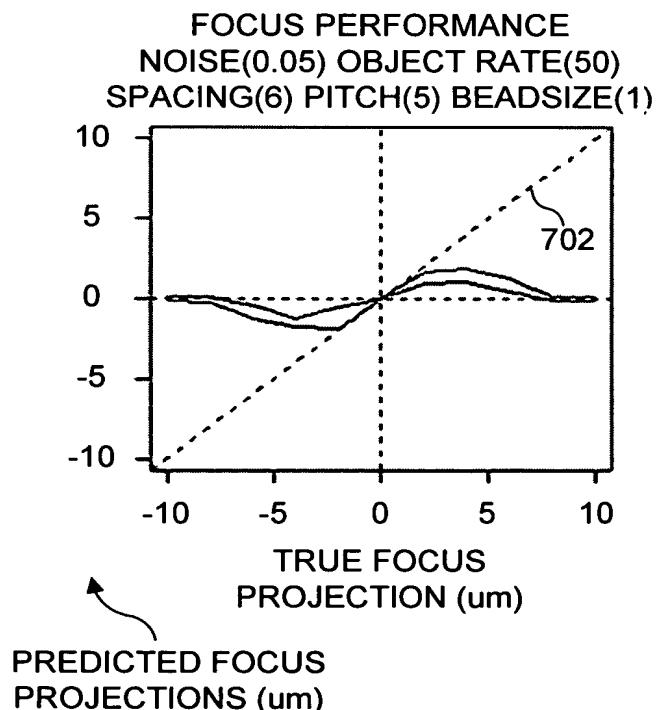


FIG. 7D

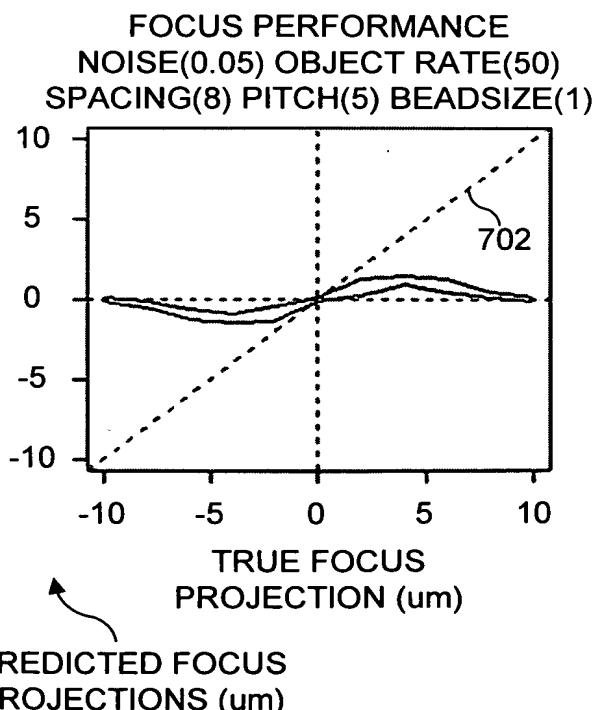
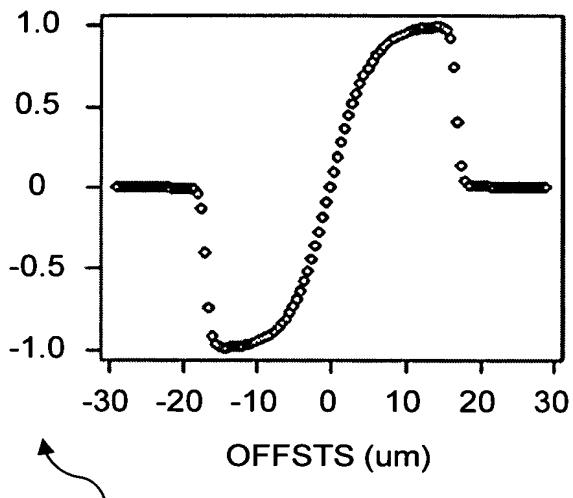


FIG. 8A

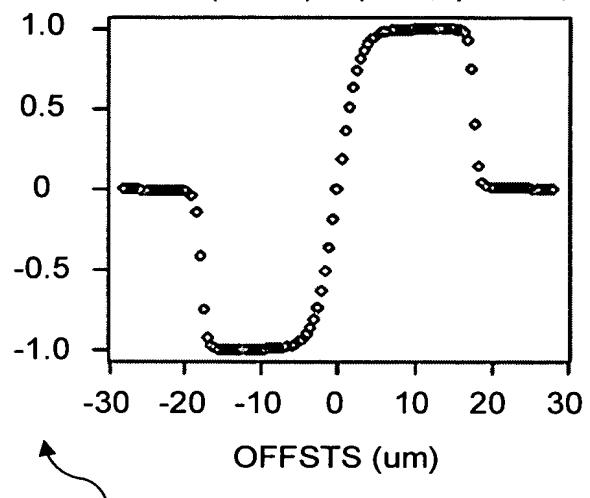
FOCUS LOOK UP TABLE
 $(B,G,S) = (1,10,2)$



FOCUS SCORE

FIG. 8B

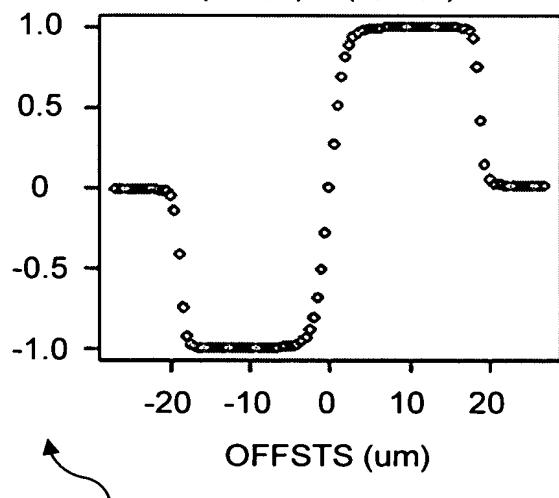
FOCUS LOOK UP TABLE
 $(B,G,S) = (1,10,4)$



FOCUS SCORE

FIG. 8C

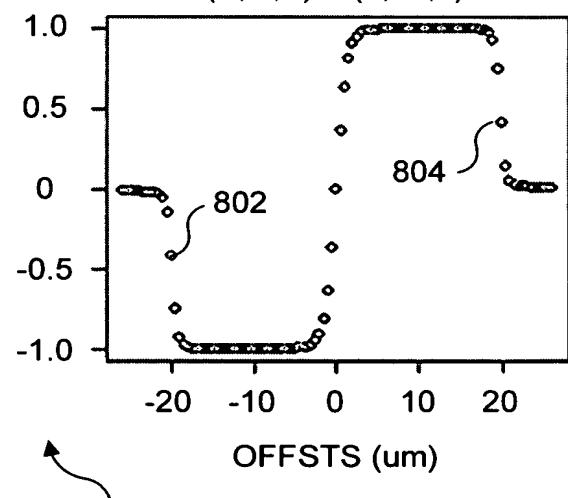
FOCUS LOOK UP TABLE
 $(B,G,S) = (1,10,6)$



FOCUS SCORE

FIG. 8D

FOCUS LOOK UP TABLE
 $(B,G,S) = (1,10,8)$



FOCUS SCORE

FIG. 9A

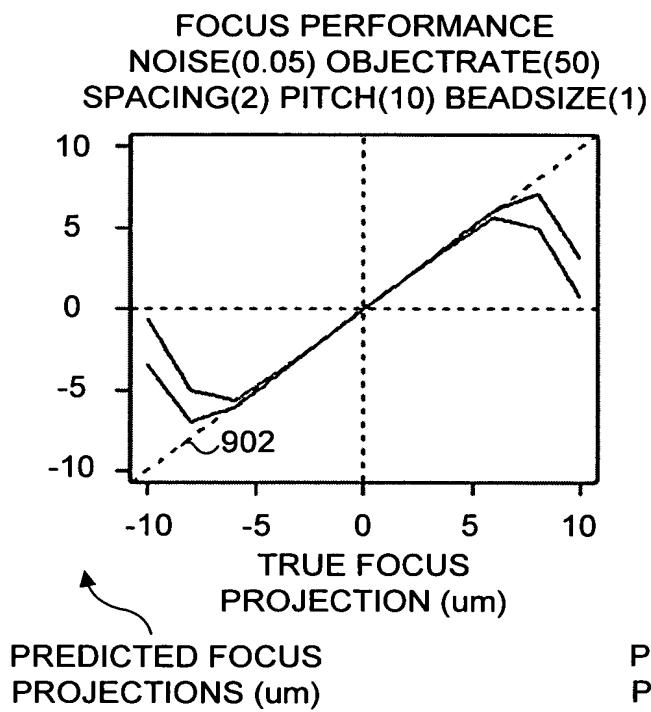


FIG. 9B

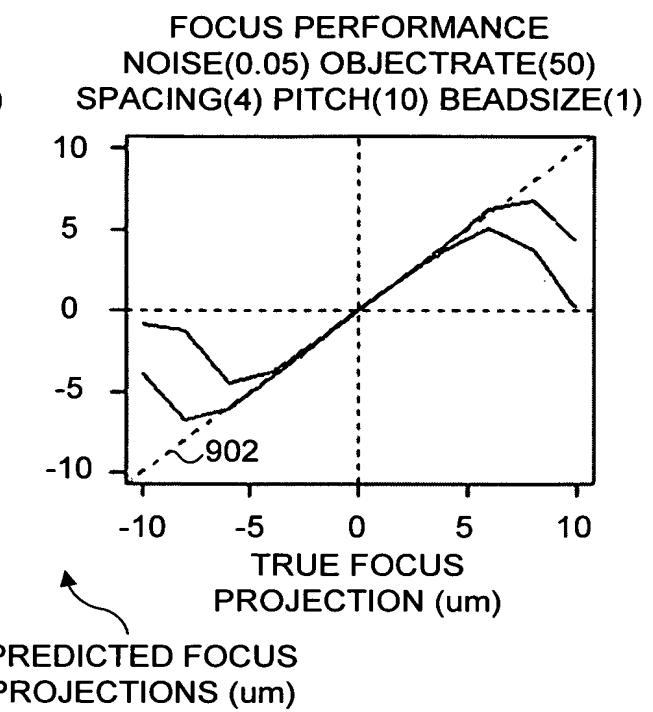


FIG. 9C

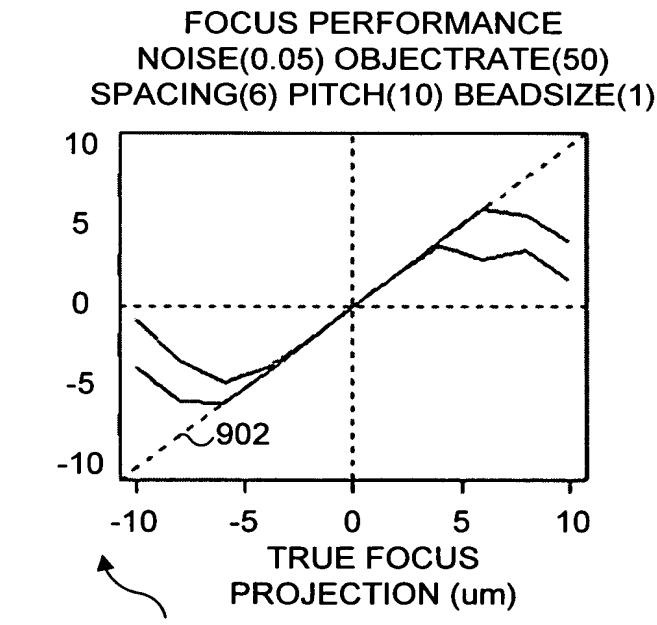
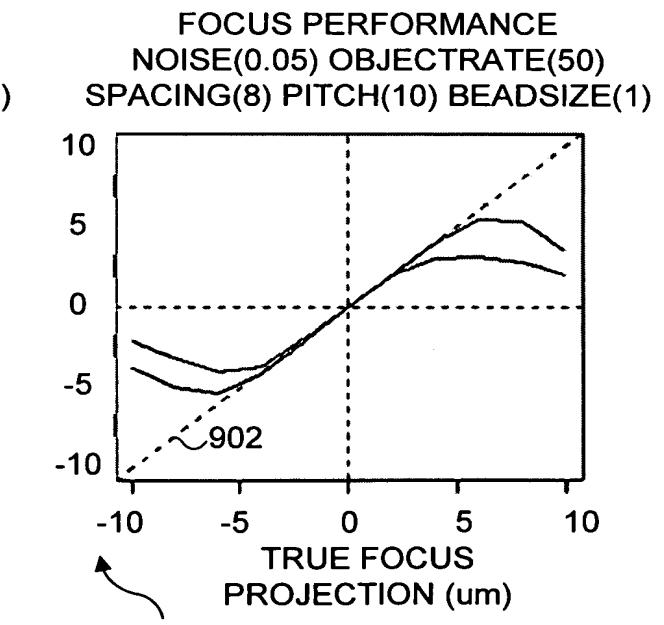


FIG. 9D



VELOCITY REPORT #1
VELOCITY DISTRIBUTION: GAUSSIAN (29999.1,43.9)

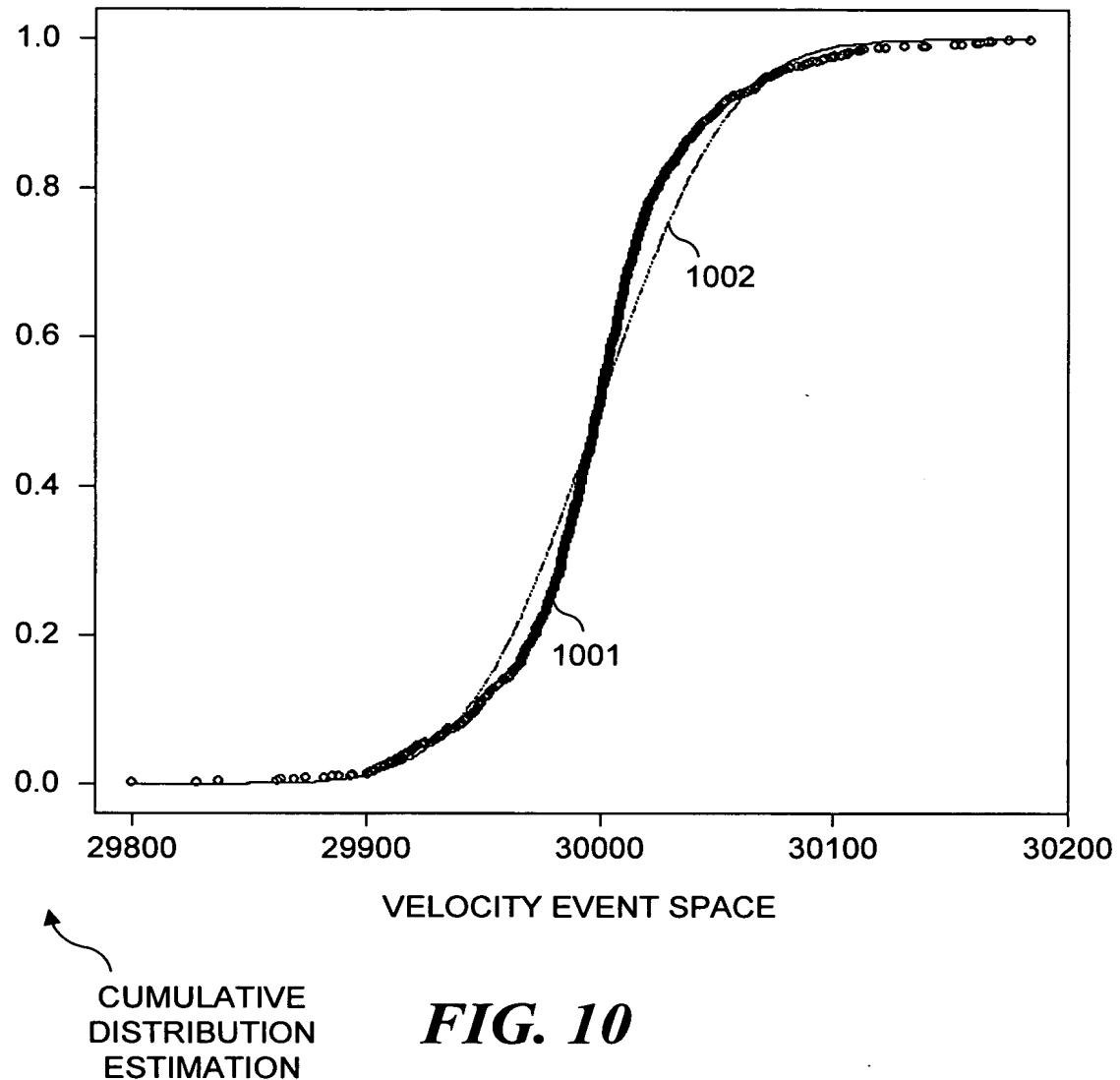
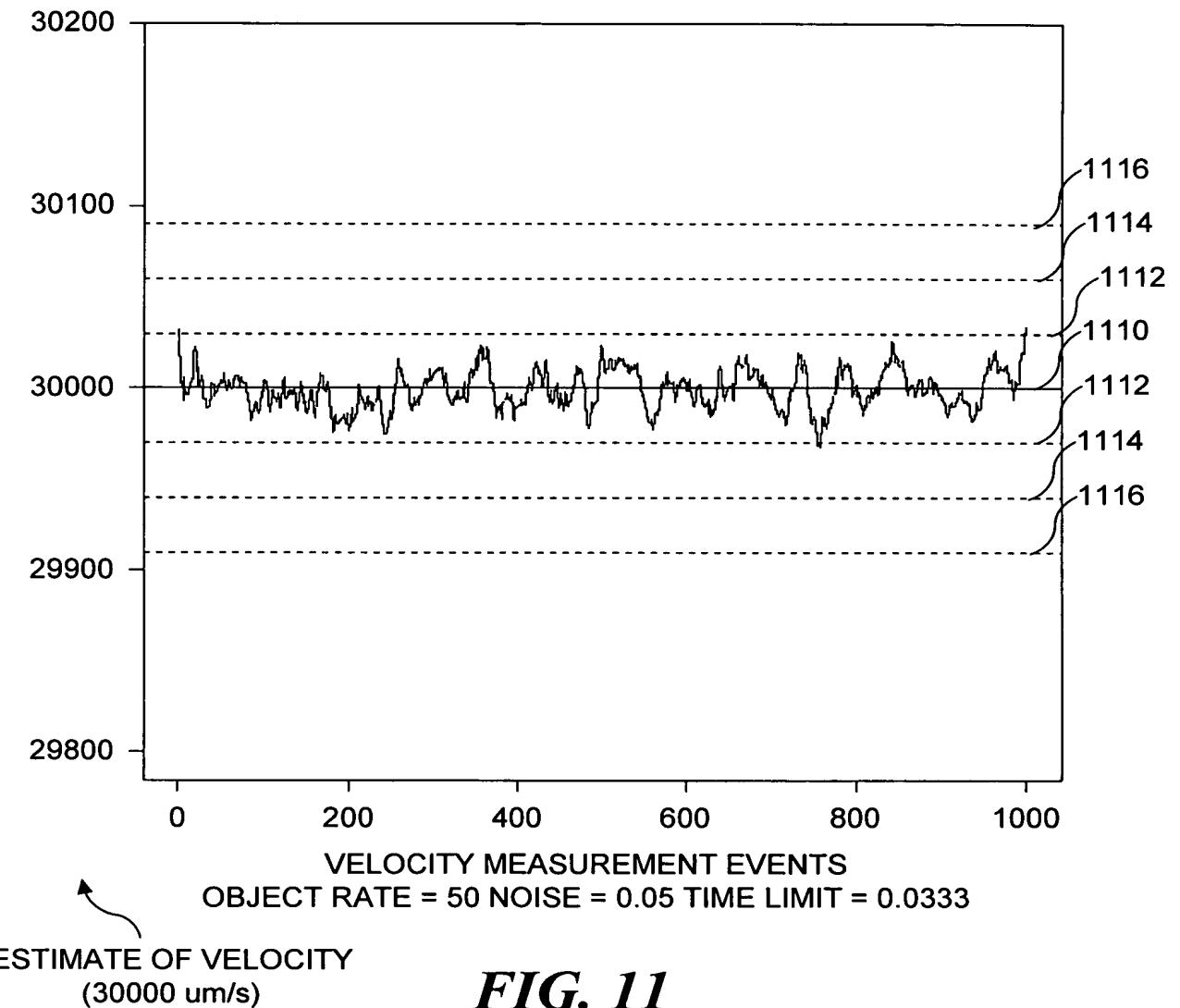


FIG. 10

VELOCITY REPORT #1
FILTERED MEASUREMENT (16) VS. RAW MEASUREMENT



EMPIRICAL VS MODEL

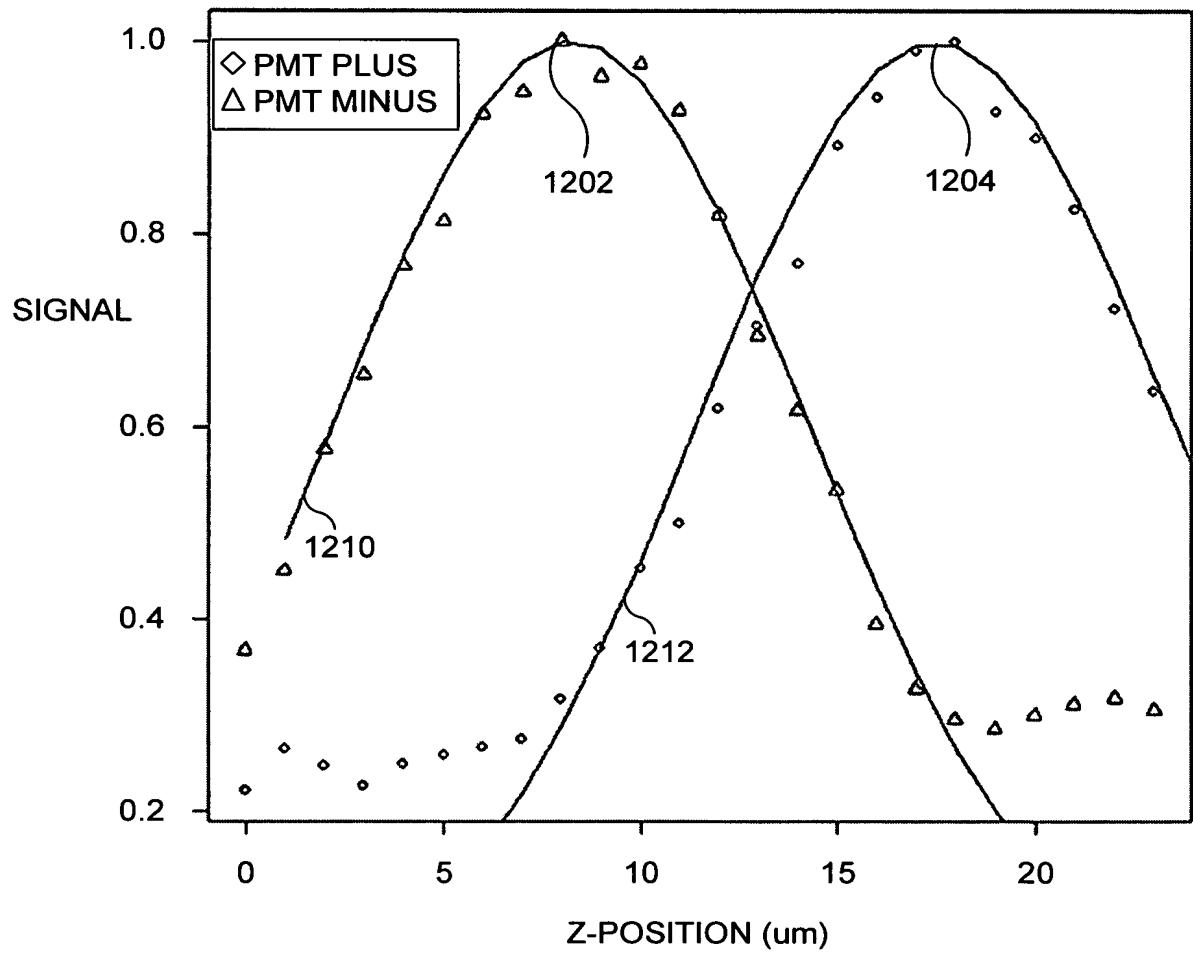


FIG. 12

FOCUS FUNCTION
INDEPENDENT SIGNALS

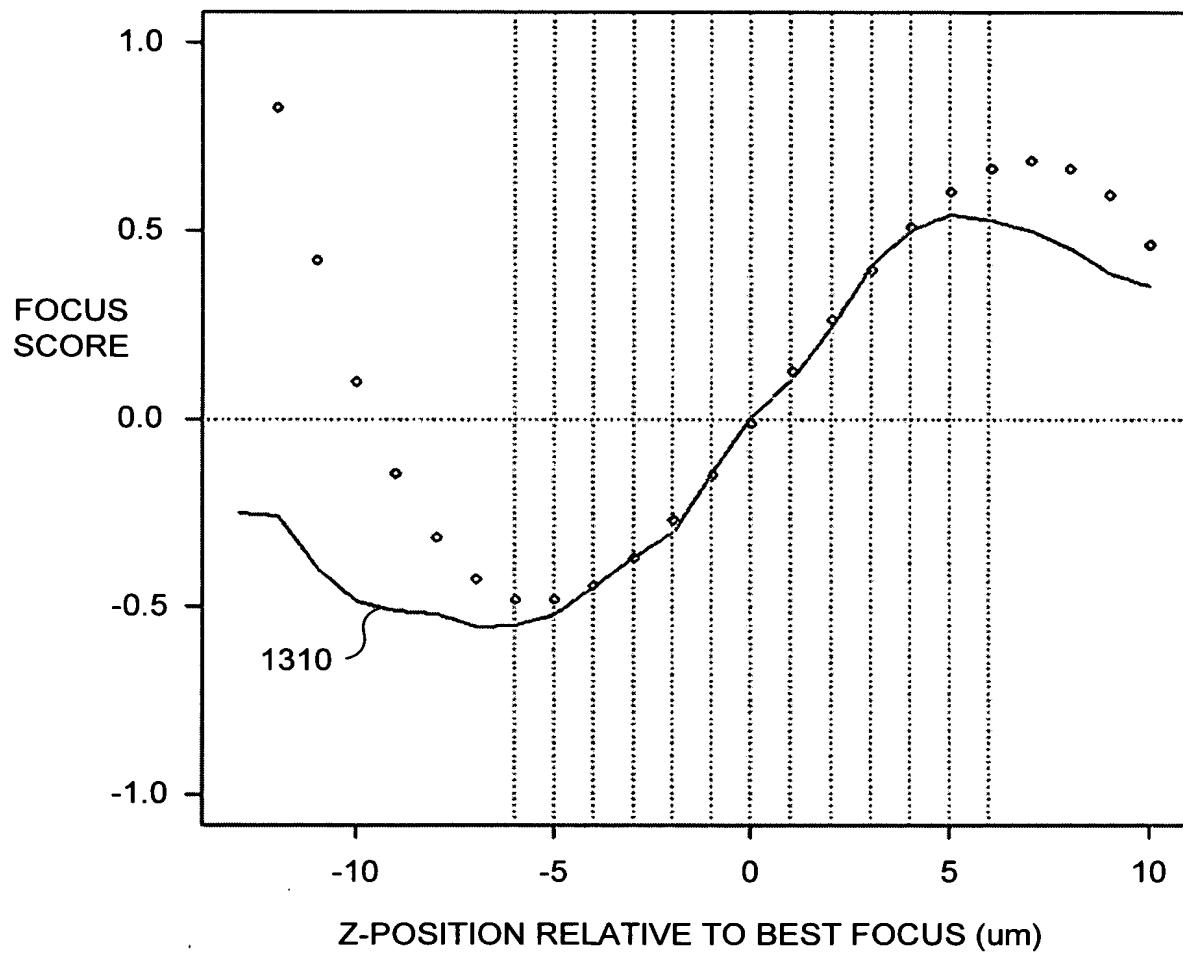


FIG. 13

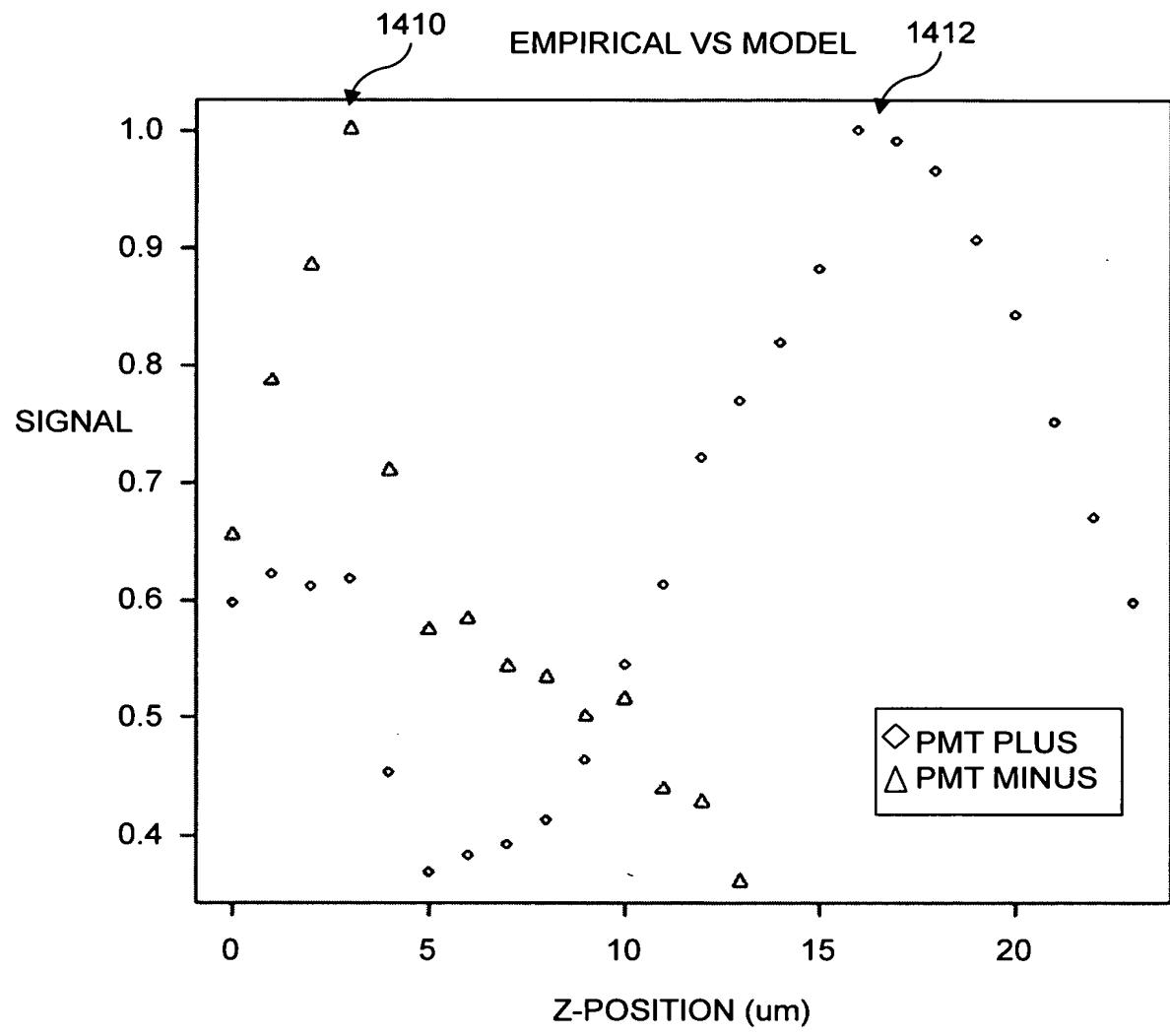


FIG. 14

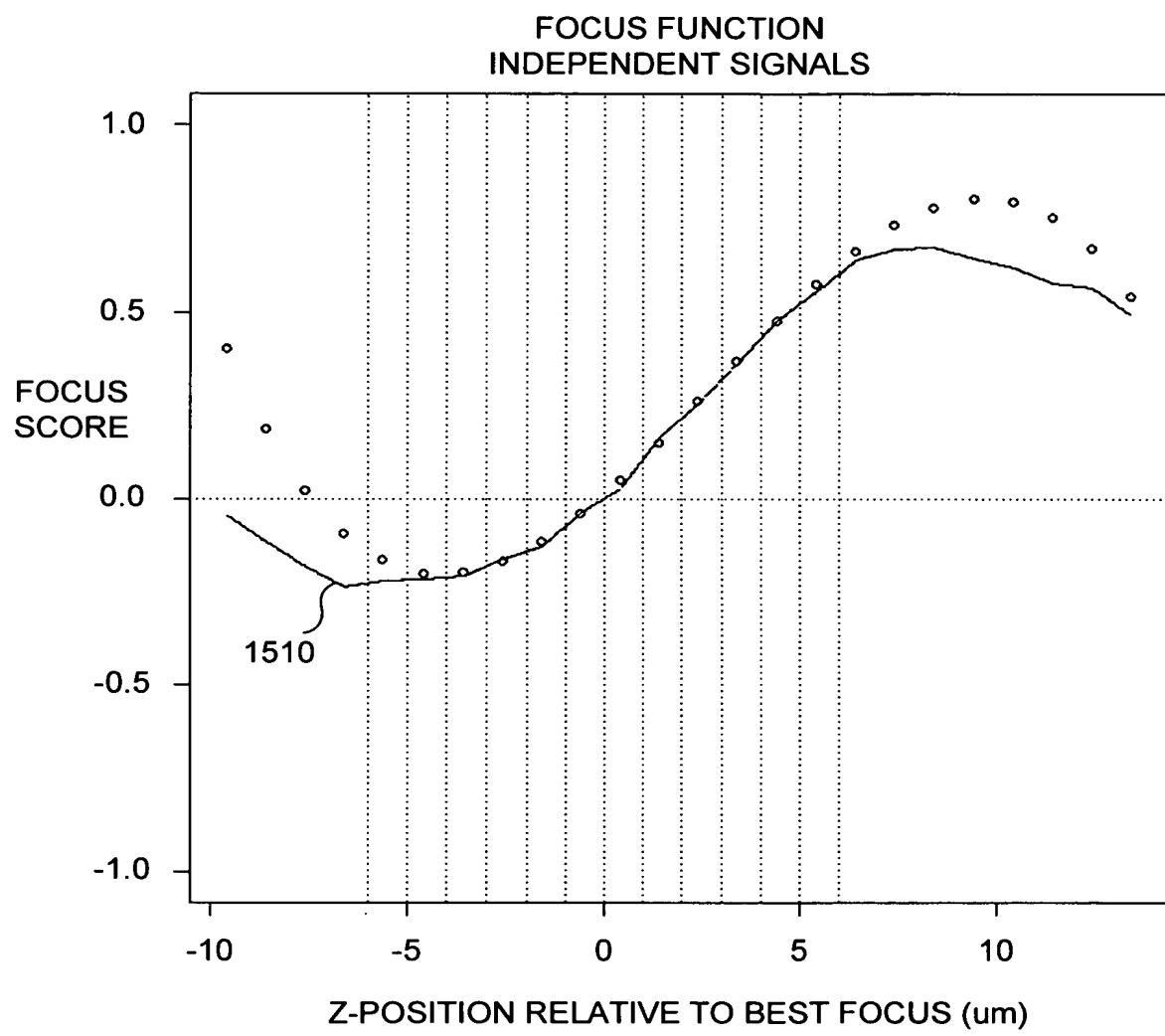


FIG. 15A

FOCUS FUNCTION
DEPENDENT SIGNALS

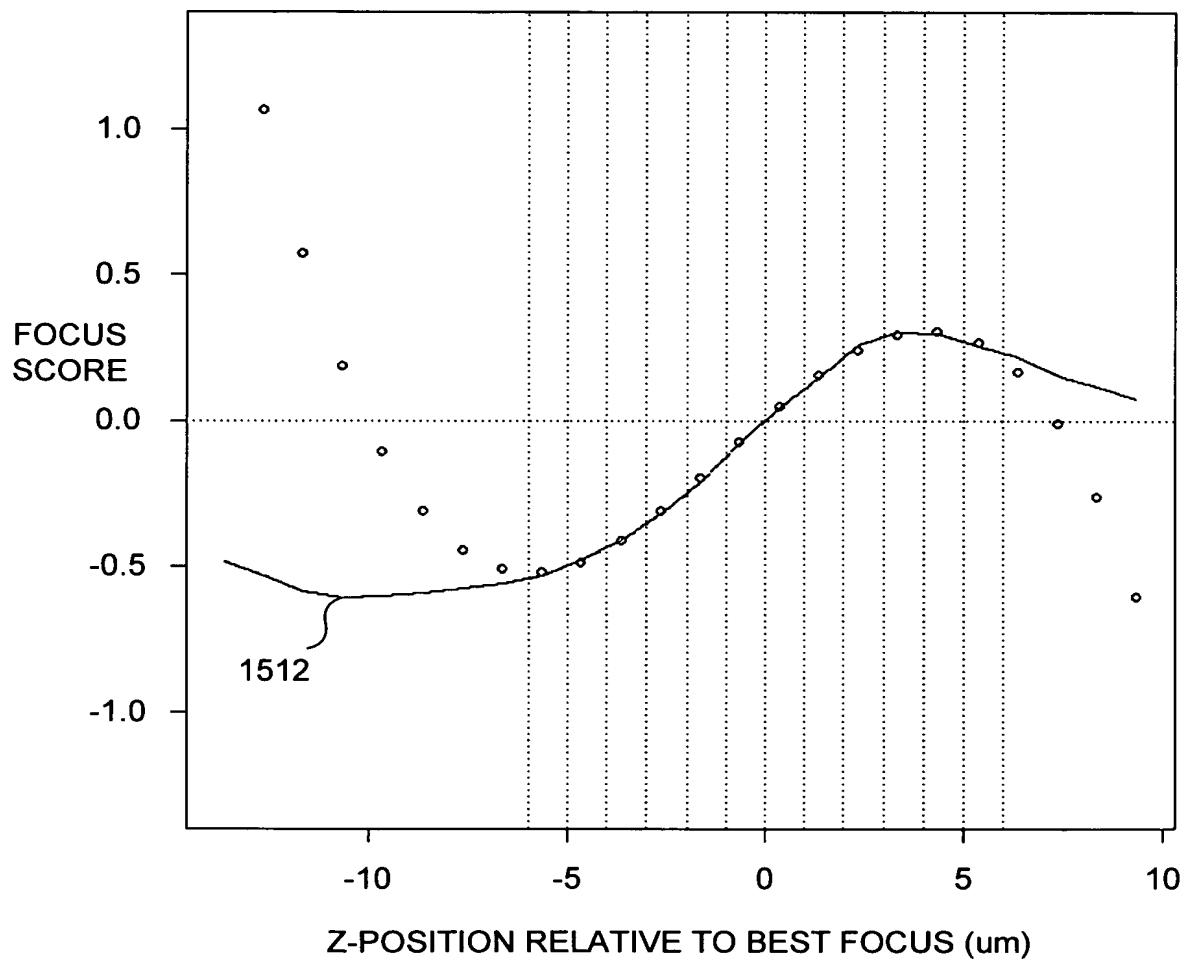


FIG. 15B

DISTRIBUTION OF SCORES
NOT AT BEST FOCUS

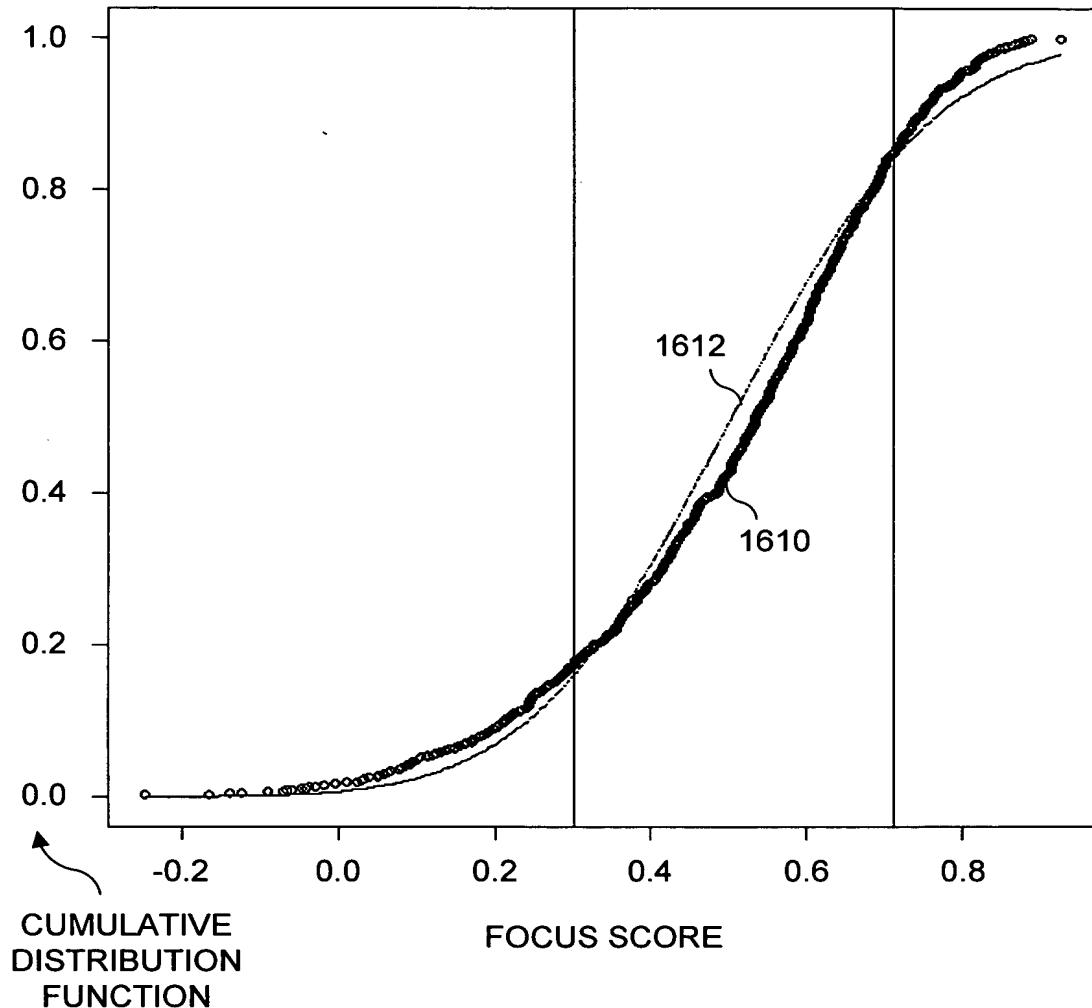


FIG. 16A

DISTRIBUTION OF SCORES
NOT AT BEST FOCUS WITH 10um CORE

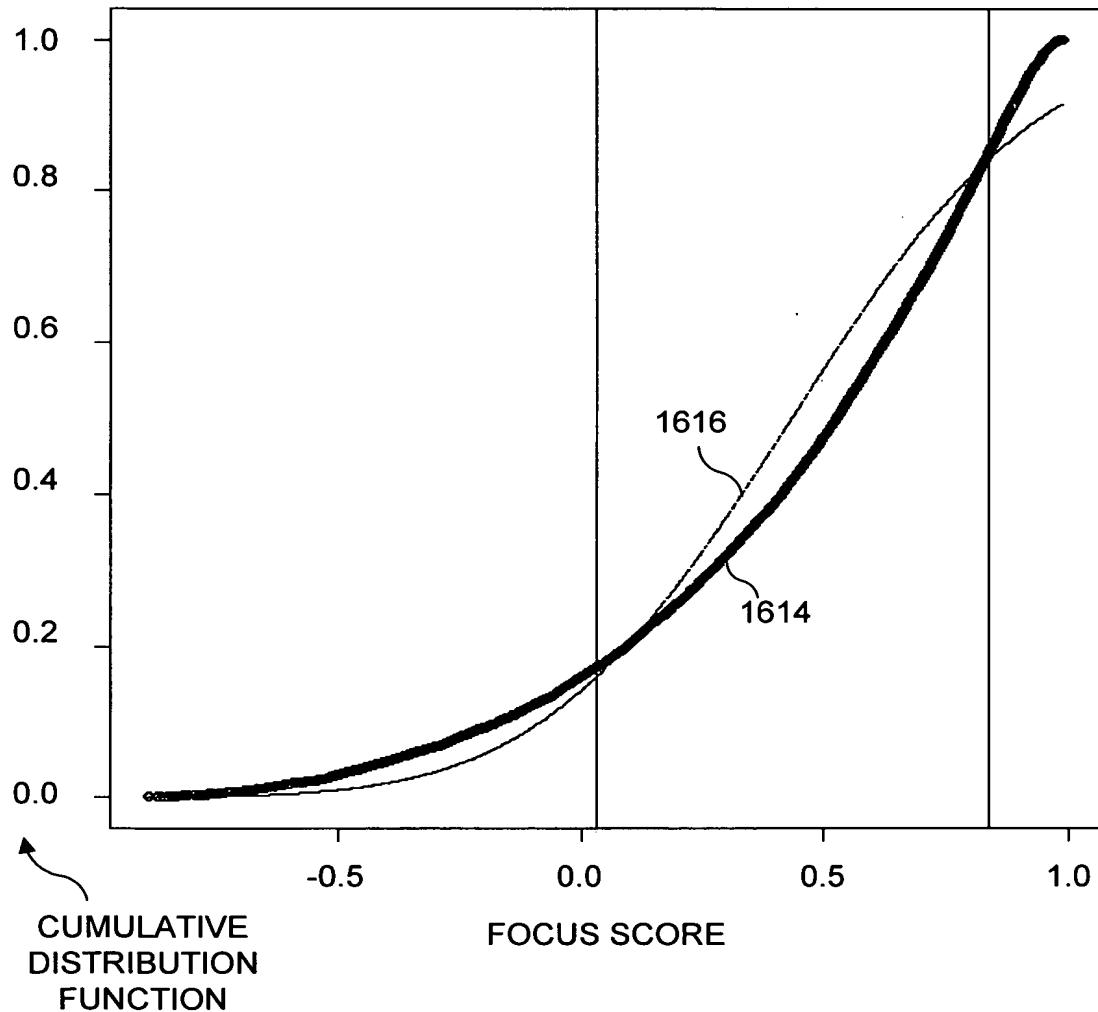


FIG. 16B

NA AND SIGNAL RESPONSE

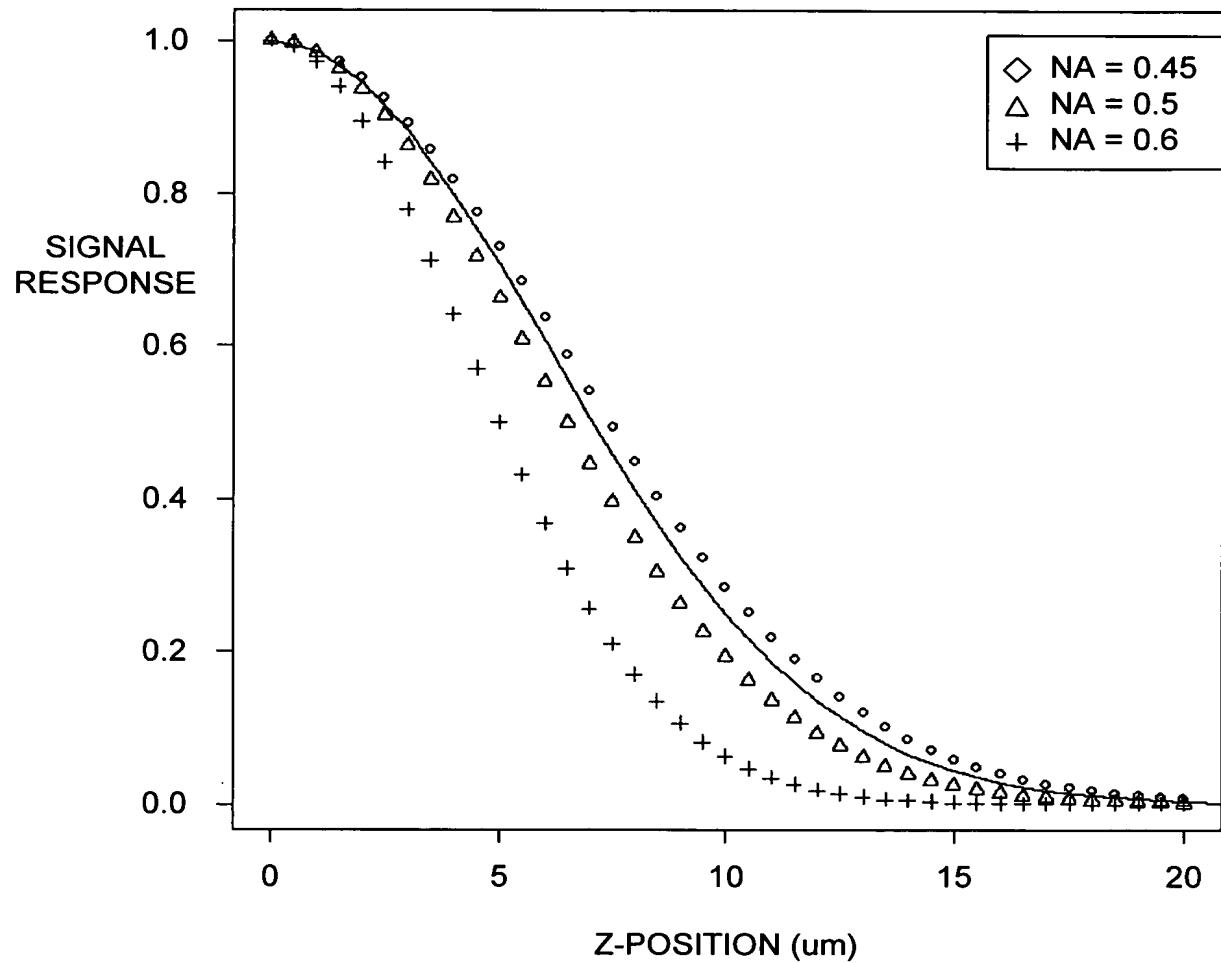


FIG. 17

FOCUS SENSITIVITY VS SEPARATION

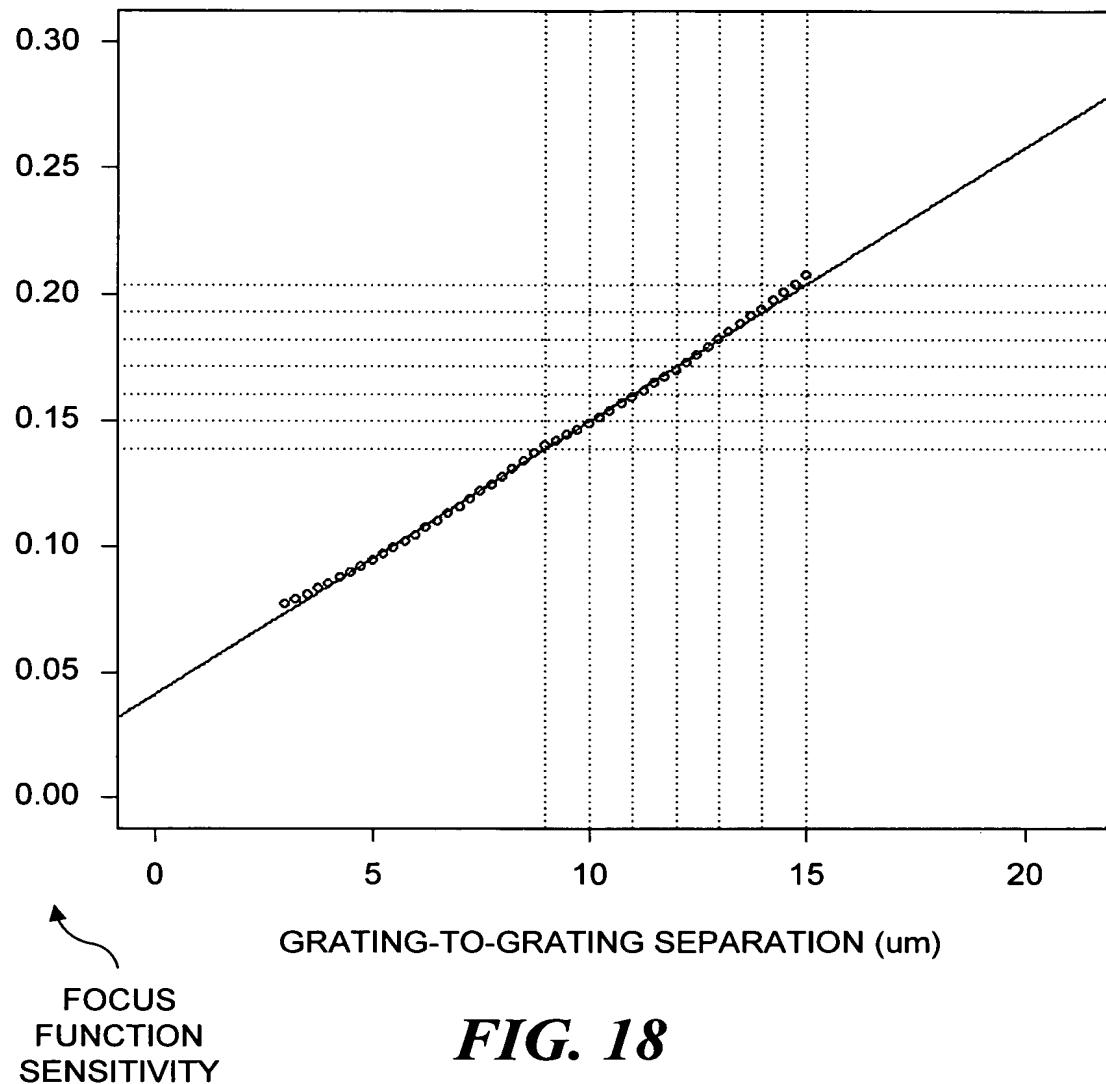


FIG. 18

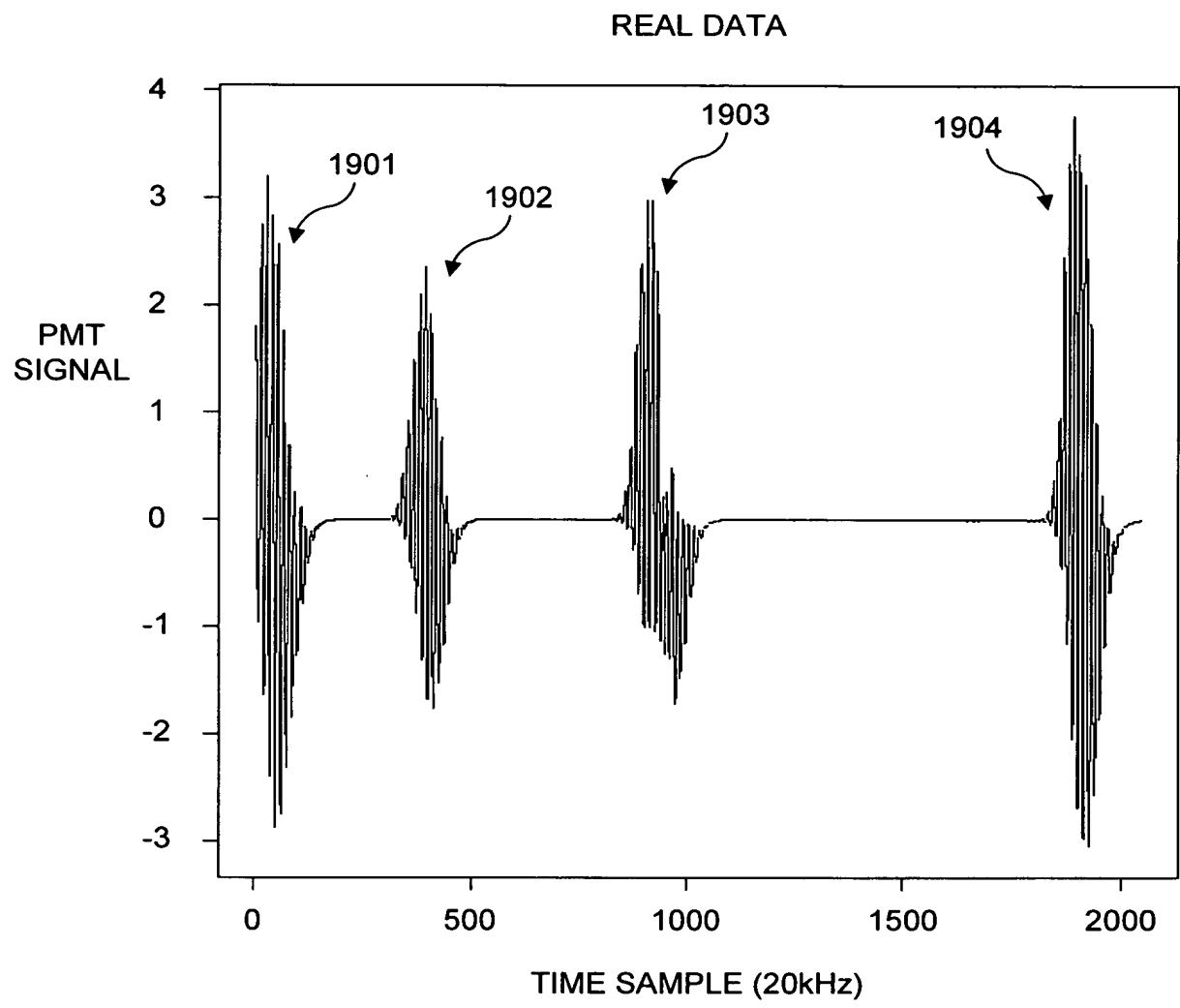


FIG. 19

1ST BEAD

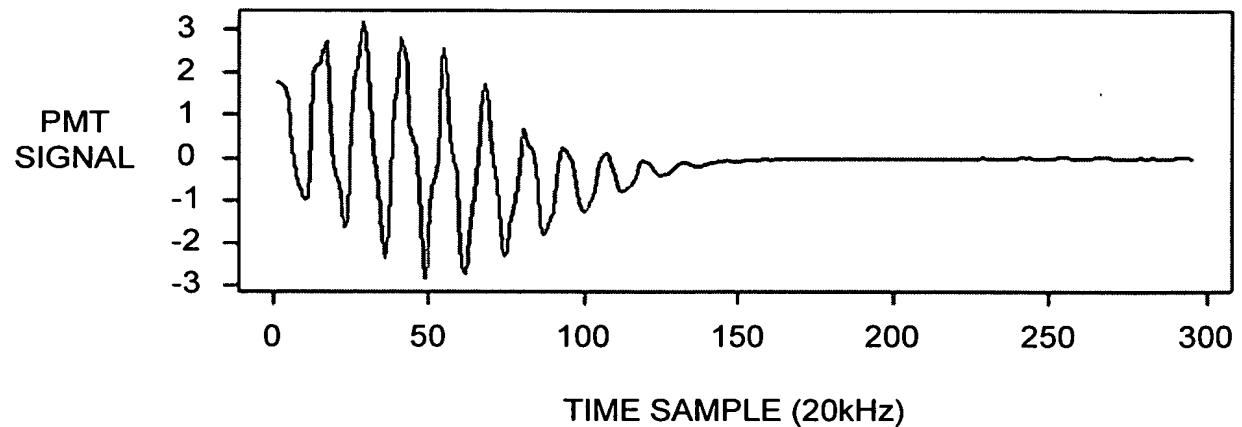


FIG. 20A

2ND BEAD

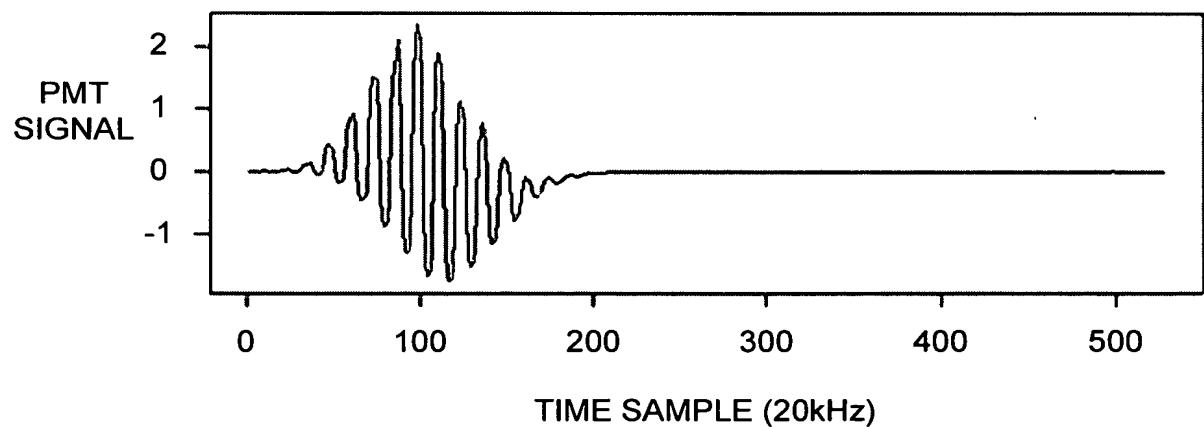


FIG. 20B

3RD EVENT

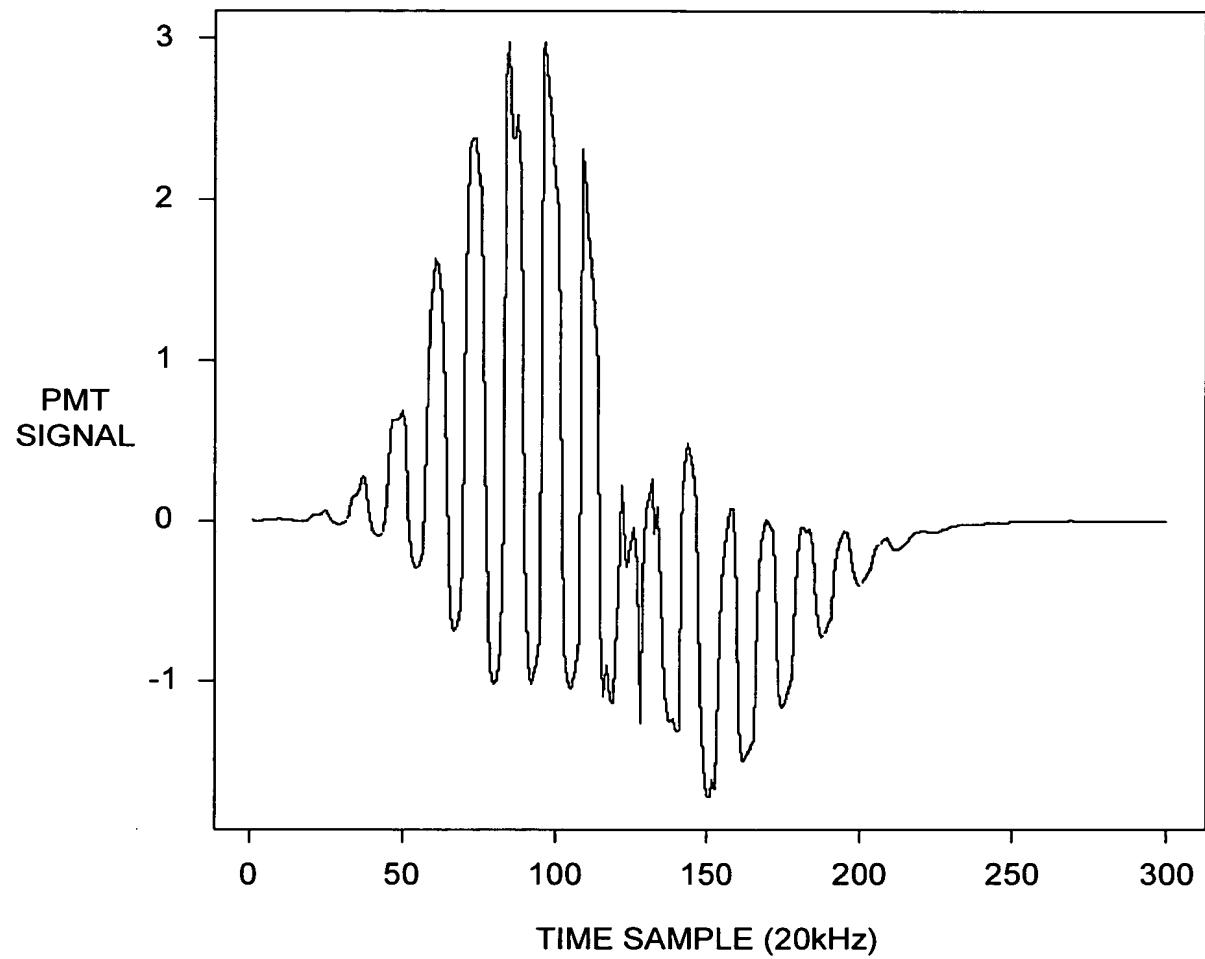


FIG. 20C

REAL DATA: 2ND EVENT

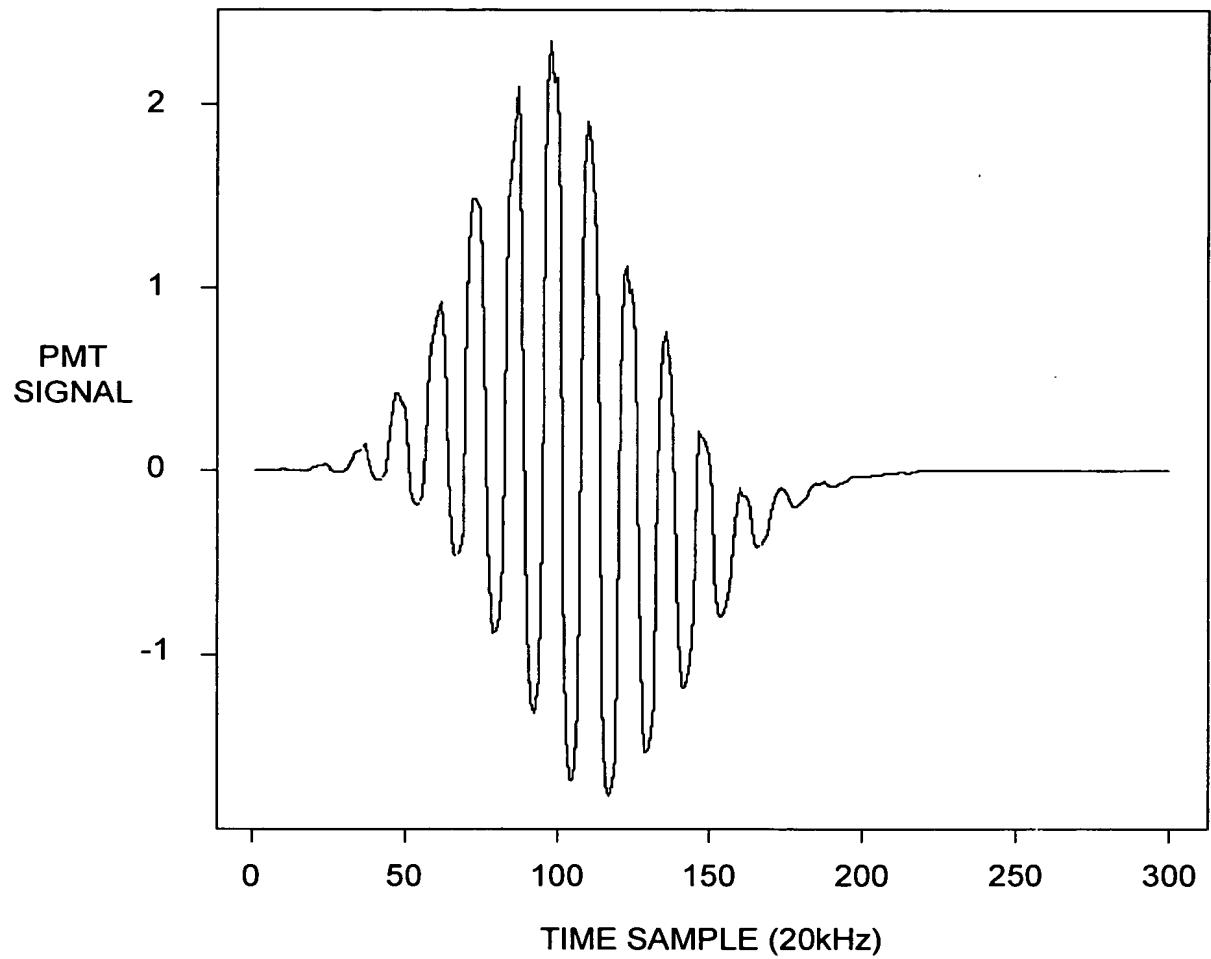


FIG. 21A

SIMULATED DATA: 2ND EVENT

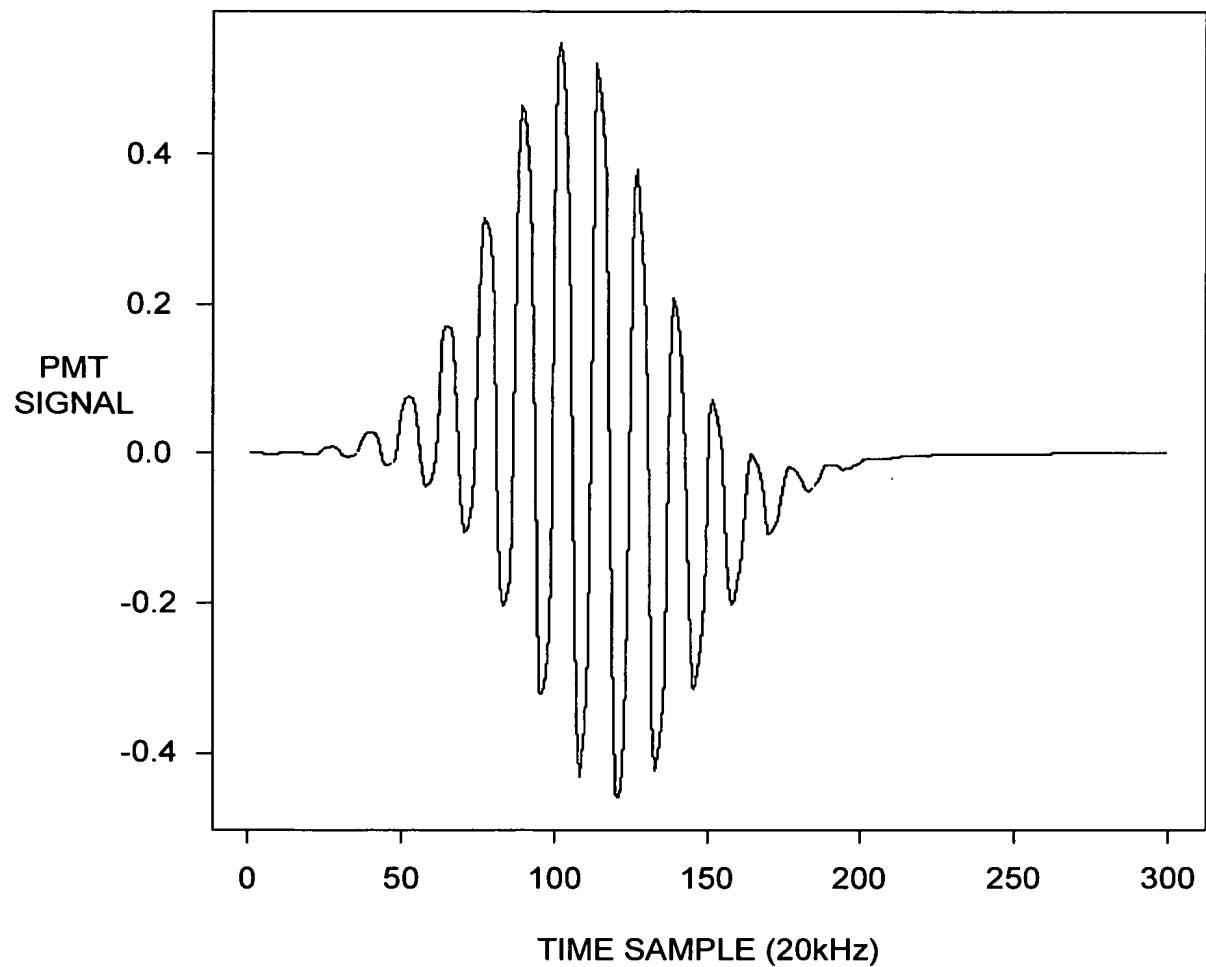


FIG. 21B

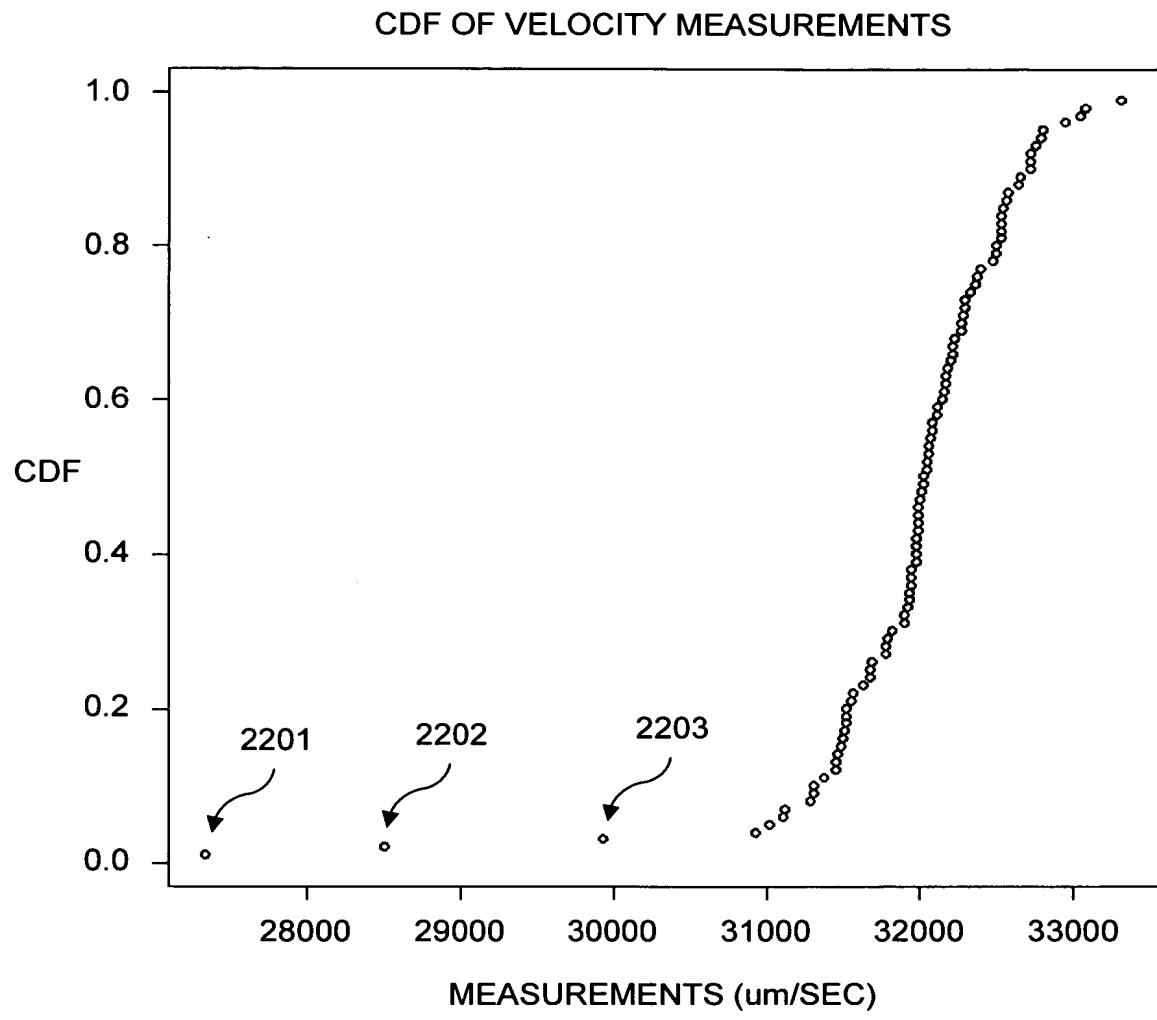


FIG. 22

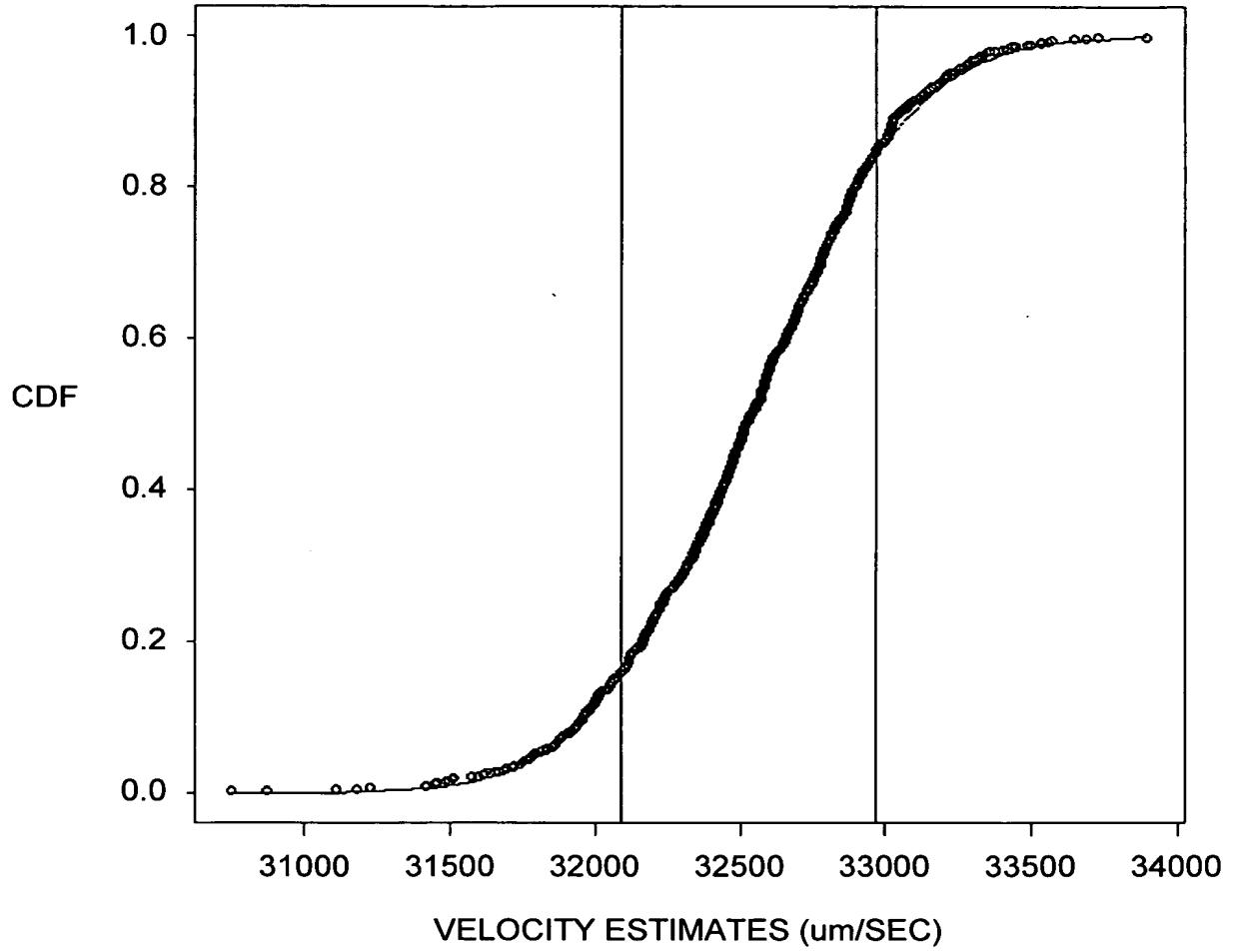


FIG. 23A

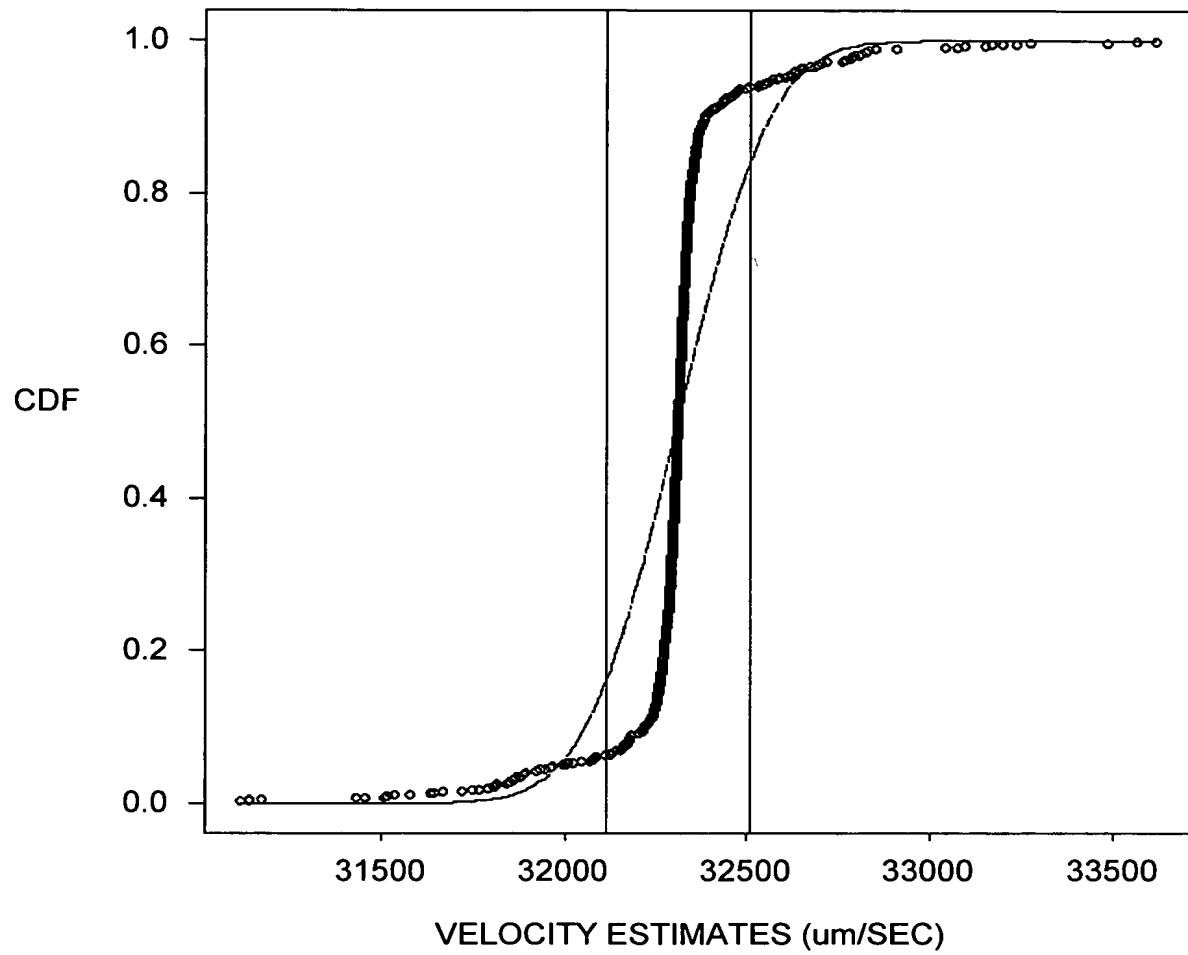


FIG. 23B

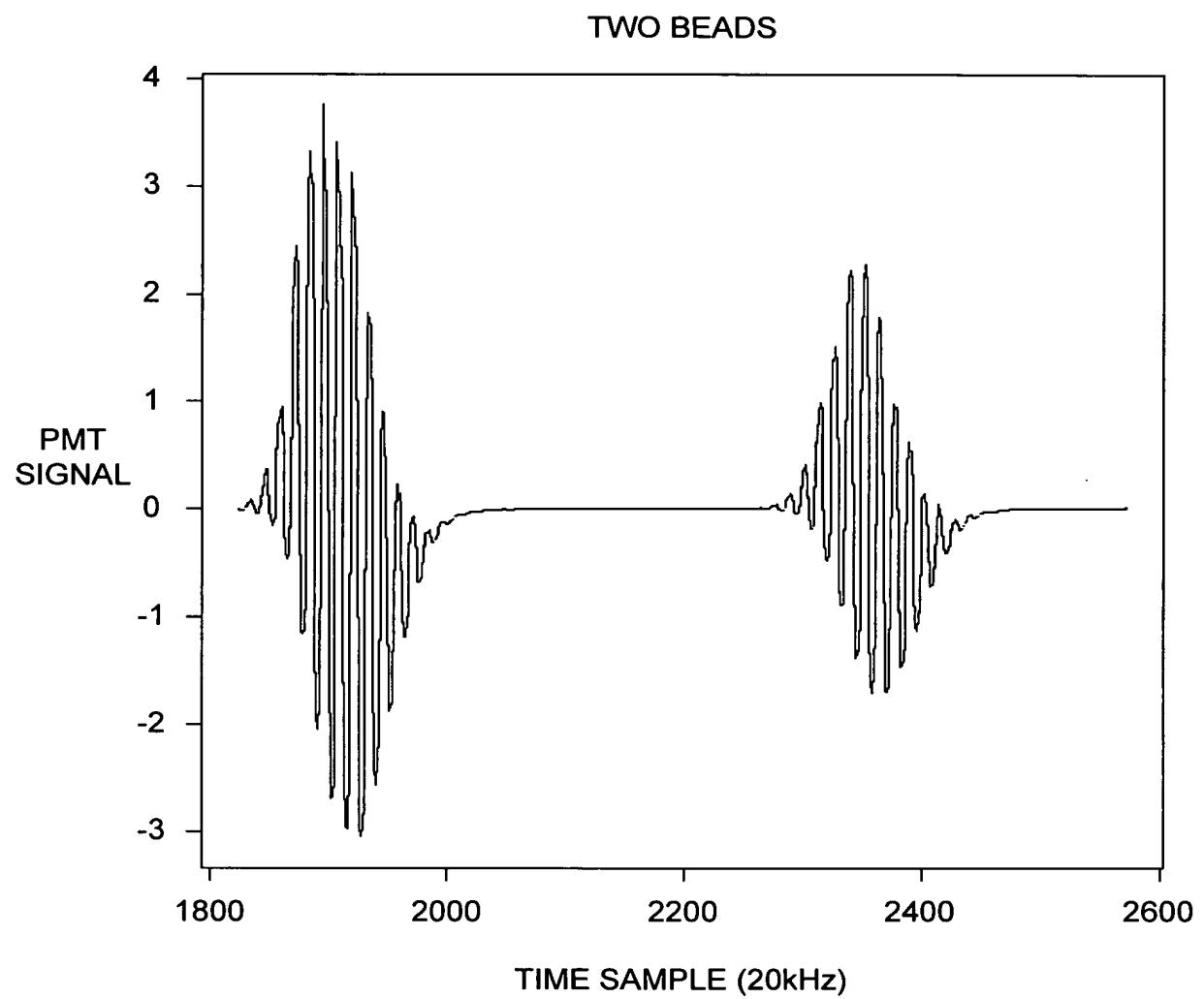


FIG. 24

FUNDAMENTAL OF THE TWO BEADS

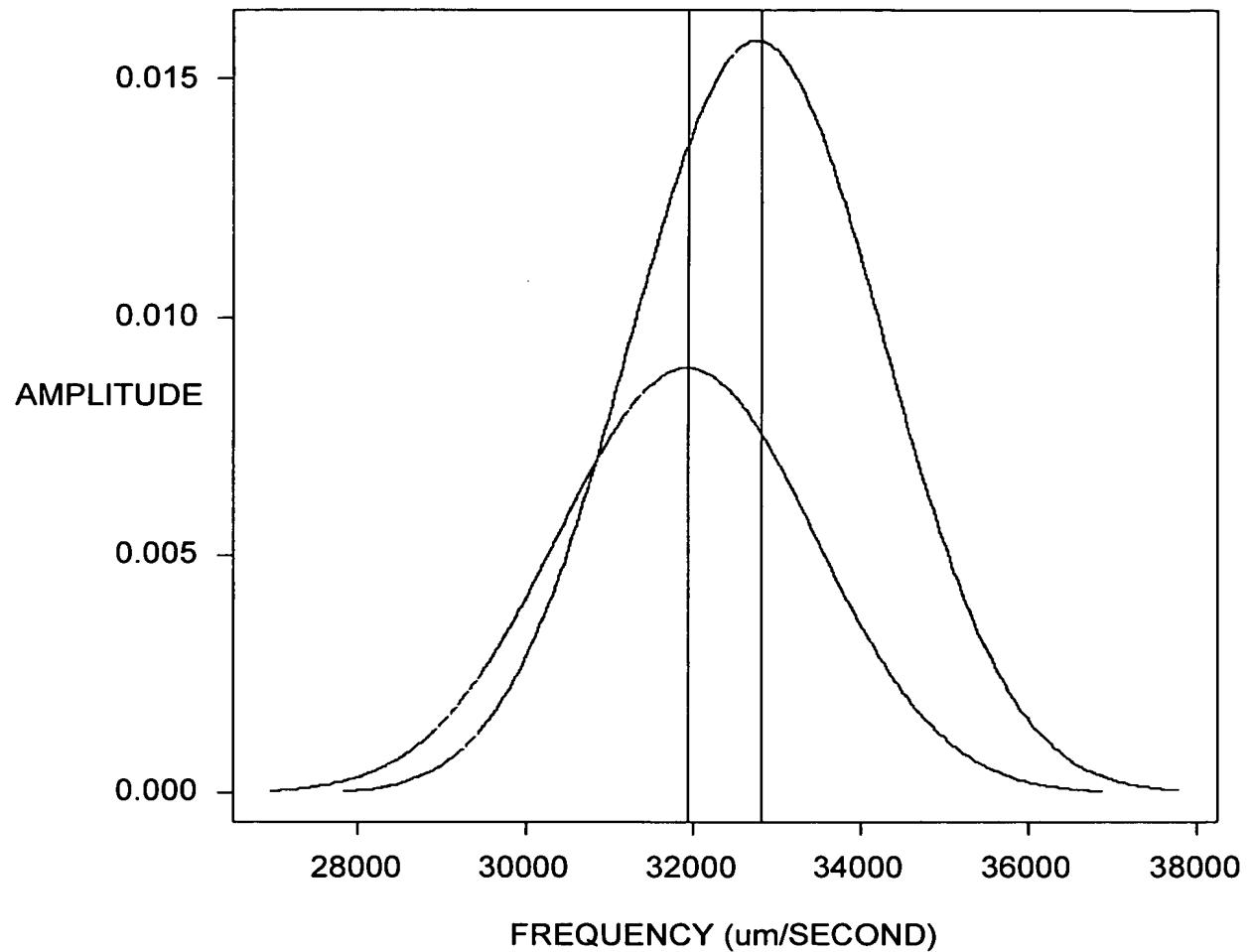


FIG. 25

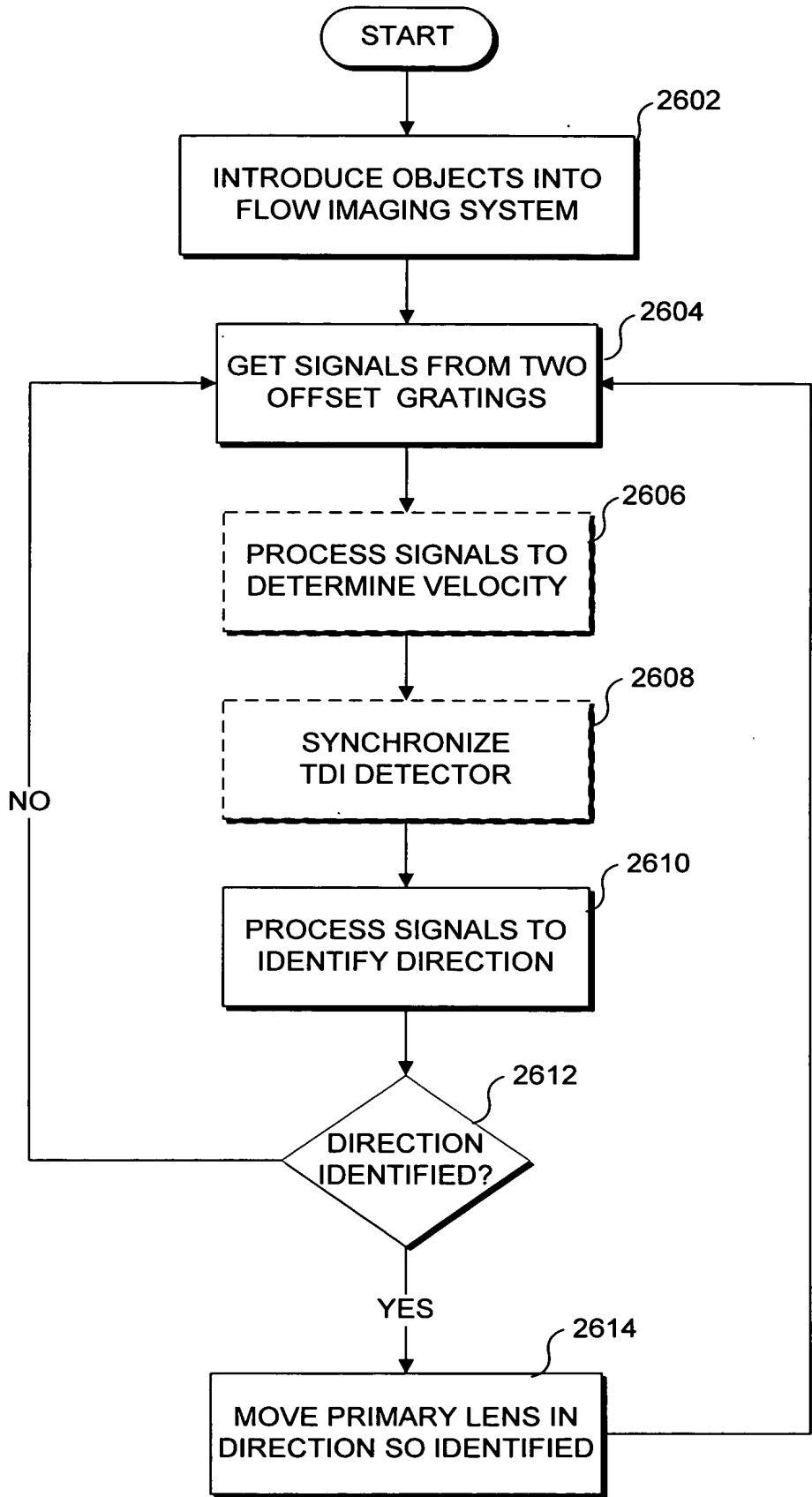


FIG. 26